

022438.43867(pct2).ST25.txt
SEQUENCE LISTING

<110> The Board of Trustees of the University of Arkansas
O'Brien, Timothy
Beard, John
Underwood, Lowell

<120> CA125 Gene and Its Use for Diagnostic and Therapeutic
Interventions

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<150> 60/299,380
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| tacaaagtgc | tattctctct | actttgaaca | taatgtttat | ttcacactcc | cactatagct | 7560 |
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| gaggacatgc | gtcgcactgg | ctccaggaag | ttcaacacca | tgagagagtgt | cctgcagggt | 7680 |
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| attgggattg | ccatgacctt | attgtgtccc | tcgtatctcc | ttaacgctta | ccaagtctcc | 11700 |
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| tattcaactc | atgtccacat | gcccctgatc | ctacattaag | tggagcagga | gctggcccct | 11820 |
| cctcttaaac | ccataagtcc | tcctcttgag | caaaggagct | gggaaggcag | aagttattga | 11880 |
| agctcccttc | cacctagctc | caaagacagg | cccagctcat | gcccgtatgc | agcagacctc | 11940 |
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| cactttttct | cagctcctgg | gacctccaca | gtggacnnnn | nnnnnnnnnn | nnnnnnnnnn | 12060 |
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| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | attttcaatt | cccactacag | ctgctggccc | 12180 |
| tctcctggtg | ctgttcaccc | tcaacttcac | catcaccaac | ctgaagtatg | aggaggacat | 12240 |
| gcatcgccct | ggctccagga | agttcaacac | cactgagagg | gtcctgcaga | ctctggttag | 12300 |
| tgcccttccc | tcctcactct | gcccagcccc | agatatccag | tccttcttac | atcatccatg | 12360 |
| ccagggtgat | gaaagaagat | agcaacaact | tcccccttc | cccccaagag | atgcaagccc | 12420 |

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| acacacacac | accttagccc | cactactcac | ctccctctcc | ctcctctaca | gcttggtcct | 12540 |
| atgttcaaga | acaccagtgt | tggccttctg | tactctggct | gcagactgac | cttgctcagg | 12600 |
| tgagacttta | gaagagccag | cctgggtgcc | caaacttggt | cccactctaa | aagactttgc | 12660 |
| actgcttcct | tgctgcactt | cctaggtata | tcttcaccac | aaggggaatt | caggagtcac | 12720 |
| tggcttgaga | accagttggt | tcctgatagt | aacaccccca | tgccccaact | caacatgcaa | 12780 |
| aatcttcacg | gttcatcatc | aggattgaga | cactaccctg | attacccatc | tgaattccct | 12840 |
| cctttccctg | acccctccct | ttcatttagg | tgttaaattc | tgtccccagg | atttctctca | 12900 |
| agataacat | gcctcatcca | catacatgca | tccgcctttc | aagctcatca | ctagtctgaa | 12960 |
| gctctgggtt | ctcctgttcc | catgccatga | gaatgcaggt | ttcaccttgc | acttttataa | 13020 |
| aaattattat | atccatgact | ctgcttgag | tcccagacca | agatagtggg | ctatgtactc | 13080 |
| agataatcta | agtgcagatt | ctcacctctt | tcccagattt | ctcatttcct | ctgggttcctt | 13140 |
| gatatgtttc | cctcagcaat | ctcaagacaa | gtcctaggca | atcttttcat | tgtcattccc | 13200 |
| cctcctacct | tcctcaggtc | cgagaaggat | ggagcagcca | ctggagtgga | tgccatctgc | 13260 |
| accacccgct | ttgaccccaa | aagccctgga | gtggacaggg | agcagctata | ctgggagctg | 13320 |
| agccagctga | ccaatggcat | caaagagctg | ggccccata | ccctggacag | gaacagtctc | 13380 |
| tatgtcaatg | gtgagcagct | gtgatatggg | aggggtctct | tcctcctggc | tgtgcaacca | 13440 |
| tctaattctt | ggcttggggg | cacactccct | gcctggccat | tgaaaattct | gtcacgtgct | 13500 |
| ctacatggga | tgactaagtt | ctggacttca | tggtttcttt | gttatcatga | gaggcattcc | 13560 |
| ctctgggcac | tcttccctgt | tgtgaggatg | ctgataggaa | atctttaatg | acccctgtcc | 13620 |
| catgaaactc | atttaattgc | accagggtag | tcctgaactc | tatcgctgcc | cccacatctc | 13680 |
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| gtgcccacca | gcagcagtga | gtattcaact | catgtccatg | atgcccctga | tcctacatca | 13800 |
| agtggagcaa | gagctggccc | ctcctcttta | accataagt | cctcctcttg | agcaaataag | 13860 |
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| tgttttctgc | tttactgat | gaggactttt | ttcagctcct | gggacctcca | cagtggacct | 14040 |
| tgggtcaggg | actccatcct | ccctccccag | ccccacaagt | aagtaccagc | caatggatc | 14100 |
| tgtattagat | catgcctgat | gaatgcaaac | atctgtgcca | ttttcagtca | aatgaaaatg | 14160 |
| gaaaatcata | ataaatctag | tgatactgag | tgaacaaaaa | aaaatgtatt | ggccacctac | 14220 |
| agtgtaccag | accctagggg | tatagcaagg | aaaatagaac | caataaaaaac | atctctgccc | 14280 |
| tcagtgaagt | tgtgttcacg | tgatgatatg | atggtgggtg | tggtggtaat | agtaataatg | 14340 |

022438.43867(pct2).ST25.txt

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| atgttactga | caatgatggt | gacggatctt | tgaggatatt | gtccgtgatg | gtcgtgaaga | 14460 |
| ttatgatgat | aatgatgatg | tgtaaagtgt | gatgatgatg | atgatctgtg | gtgatgctgt | 14520 |
| ttaggatgct | gttccgtggt | accgatgata | ttgatgttg | tcgtggttat | gttgatgac | 14580 |
| aatgacaatg | atggtgatga | ggataatcgc | cagtgatggt | gtgggtttat | gatgatgatg | 14640 |
| atgtgttgaa | tgtggtgatg | ataatgttcg | tggtggtcgt | gatgggcatt | actatggcag | 14700 |
| tgatggtcat | aataatgatg | gtgatggtga | caatgatagc | aaggatgatg | atggcaataa | 14760 |
| agatagtaca | taacatcaga | caatattgag | ctctgaatat | gcaccacgag | gagtgtcag | 14820 |
| catctaaata | ctattatata | atatatTTTT | gtaaaaataa | attgtattgt | tttaggcaag | 14880 |
| ggaagcatgg | taaatTTTT | gtcactcaat | ttaaattctg | catatgttta | aagataagtc | 14940 |
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| gctgctggcc | ctctcctggt | gccattcacc | ctcaacttca | ccatcaccaa | cctgcagtac | 15060 |
| gaggaggaca | tgcatcacc | aggctccagg | aagttcaaca | ccacggagcg | ggtcctgcag | 15120 |
| ggtctggtta | gtgctccacc | ctcctcactc | cgccccaccc | cagagagtca | gtacctccta | 15180 |
| catcatccat | gccaggtgat | ggaacaagat | cataccacc | tcacccttgc | cccaagagat | 15240 |
| gcaagccatg | cccattgaaa | ccagccccac | tcactgatgc | ctgttactgc | cccacctgac | 15300 |
| ttctgcccta | cacaccaca | cacgcaactt | agccctccta | ctcatctcct | tctccctcct | 15360 |
| ccacagcttg | gtcccatggt | caagaacacc | agtgtcggcc | ttctgtactc | tggtgcaga | 15420 |
| ctgaccttgc | tcaggtgaga | ccttagaaga | tcaagcttgg | ctgccccact | tgtnnnnnn | 15480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 15540 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 15600 |
| ngtgttagtc | tacttttgaa | cactgtttat | ttcccatctt | cactatagcc | gccagccctc | 15660 |
| tcctggtgct | attcacaatt | aacttcacca | tcactaacct | gcggtatgag | gagaacatgc | 15720 |
| atcagcctgg | ctctagaaa | tttaacacca | cggagagagt | ccttcagggt | ctggtgaagag | 15780 |
| ccccacatac | ctcattctac | cgccactcac | catgtttagt | cctgcccacc | tcacctattg | 15840 |
| cagagcatgg | aagatctcat | ctacctcatc | ttgccccag | atatgcatac | cccaaccact | 15900 |
| gatgccagcc | ccaccaactg | ttgccagccc | tgccacctc | ccttctacca | caccctatg | 15960 |
| acttcagtcc | tcccactcac | ctccctctcc | ctcctccaca | gctcaggcct | gtgttcaaga | 16020 |
| acaccagtgt | tggccctctg | tactctggct | gcagactgac | cttgctcagg | tgagaactga | 16080 |
| gaacagccag | tctgactgat | ctgagcagtt | tgacctgctt | cccttctgca | ctccctggag | 16140 |
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| gtgactcttt | tctgcctctc | ttgggtatct | gatcaagatg | gactcaggaa | aagtgtcca | 19140 |
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| tctccccacc | tcccttgccc | ttaggtgtta | aaattctcta | actaagattt | ctctcaagac | 19320 |
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| aatggtgagc | aattgtgatg | tggttgaggt | ttcttcttcc | ttgctgagca | ggcctctact | 19860 |
| ctctgtcttg | aggtcactct | ccctgcctgg | ccactgggtct | tgccatgtt | gtctgtattt | 19920 |
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| aactccttca | attgcaccat | ggtagcactg | accccttttg | gtccccacc | ttnnnnnnnn | 20100 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | ttcactcatc | ggagctctgt | 20160 |
| gtccaccacc | agcactnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 20220 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 20280 |
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| agtgtatctg | ggagcatcta | agactccagc | ctcgatattt | ggcccttcan | nnnnnnnnnn | 20460 |
| nnnnnnnnnn | nnnnnnnnnn | nnngactcca | gcctcgatat | ttggcccttc | aggtaagtac | 20520 |
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| aggcatgaaa | accttctatt | ttatcactct | ctttaaatct | ggttgcatat | gtttagaaat | 21540 |
| aaatctatta | caaactctta | aatgttctct | acttttgaac | atagtgttta | tttcccacct | 21600 |
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| acctacgtca | cccattccaa | ggcatggaag | aagatctcac | ccacctcccc | tcacctgaga | 21840 |
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022438.43867(pct2).ST25.txt

| | | | | | | |
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| accagtgttg | gccctctgta | ctctggctgc | aggctgacct | tgctcagggtg | agaactgaga | 22020 |
| ataaccagtc | tggctacccc | aagtgttccc | aggcccaagg | agtttcatca | gctttcttcc | 22080 |
| ttccctccct | atggaagtcc | tcagcacaag | tggaattcag | gcgttggtgg | ctccaggatg | 22140 |
| aacatatctg | ctgatcctac | cacctcccc | atcaatcgag | agaatttgca | gggccccatca | 22200 |
| gccagatcag | gcttctactt | tggtcatcct | tctgaatttc | ttacttctcc | ctacctccct | 22260 |
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| ttgctttcat | cccccaattcc | agctcttaat | atttctcaag | tctgggctct | cctgtcccca | 22380 |
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| ccaaccaaca | aactttattg | agcattgtga | caagccctgg | ggctctgcca | aatcctgggg | 23640 |
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| aacaaagtta | atggataata | tatgaactta | ttggctactg | aatatgcacc | aaagtgctat | 23940 |
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022438.43867(pct2).ST25.txt

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| tcacctcaa | agctgagcca | cacttcagat | gagagactga | ccactggcaa | ggacaccaca | 21720 |
| aatacagaag | ctgtgcatcc | ttccacaaac | acagcagcgt | ccaatgtgga | gattcccagc | 21780 |
| tttgacatg | aatccccctt | ctctgcctta | gctgactcag | agacatccaa | agccacatca | 21840 |
| ccaatgttta | ttacctccac | ccaggaggat | acaactgttg | ccatatcaac | ccctcacttc | 21900 |
| ttggagacta | gcagaattca | gaaagagtca | atttcctccc | tgagccctaa | attgagggag | 21960 |
| acaggcagtt | ctgtggagac | aagctcagcc | atagagacaa | gtgctgtcct | ttctgaagtg | 22020 |
| tccattggtg | ctactactga | gatctccagg | acagaagtca | cctcctctag | cagaacatcc | 22080 |
| atctctggtt | ctgctgagtc | cacaatgttg | ccagaaatat | ccaccacaag | aaaaatcatt | 22140 |
| aagttcccta | cttcccccat | cctggcagaa | tcatcagaaa | tgaccatcaa | gacccaaaca | 22200 |
| agtcctcctg | ggtctacatc | agagagtacc | tttacattag | acacatcaac | cactccctcc | 22260 |
| ttggaataaa | cccattcgac | tatgactcag | agattgccac | actcagagat | aaccactctt | 22320 |
| gtgagtagag | gtgctgggga | tgtgccacgg | cccagctctc | tccctgtgga | agaaacaagc | 22380 |
| cctccatctt | cccagctgtc | tttatctgcc | atgatctcac | cttctcctgt | ttcttccaca | 22440 |
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| gtgaagacta | ctgaggtggt | ggacgcaagt | gcagaacctg | aaaccagttc | acctccaagt | 22560 |
| ttgagcagca | cctcagttga | aatactggcc | acctctgaag | tcaccacaga | tacggagaaa | 22620 |
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| tccccctcct | ctgtcctacc | tgactcagag | acaaccaaag | ccacatcggc | aatgggtacc | 22740 |
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| gaagagacca | gcttagccac | agaagcaaac | actgttcttt | ctaaagtgtc | cactggtgct | 22920 |
| actactgagg | tctccaggac | agaagccatc | tccttttagca | gaacatccat | gtcaggccct | 22980 |
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| acactagaaa | gtacccttaa | tttgaacaca | gcaaccacac | cctcttgggt | ggaaaccac | 23160 |
| tctatagtaa | ttcagggatt | tccacacca | gagatgacca | cttccatggg | cagaggtcct | 23220 |
| ggaggtgtgt | catggcctag | ccctcccttt | gtgaaagaaa | ccagccctcc | atcctccccg | 23280 |
| ctgtctttac | ctgccgtgac | ctcacctcat | cctgtttcca | ccacattcct | agcacatatc | 23340 |
| ccccctctc | cccttcctgt | gacttcactt | ctcacctctg | gcccggcgac | aaccacagat | 23400 |
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022438.43867(pct2).ST25.txt

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| aacacaggag | ggaccaatgt | ggcaaccacc | agctctggat | ataaatcaca | gtcctctgtc | 23580 |
| ctagctgact | catctccaat | gtgtaccacc | tccaccatgg | gggatacaag | tgttctcaca | 23640 |
| tcaactcctg | ccttccttga | gactaggagg | attcagacag | agctagcttc | ctccctgacc | 23700 |
| cctggattga | gggagtccag | tggctctgaa | gggaccagct | caggcaccaa | gatgagcact | 23760 |
| gtcctctcta | aagtgccac | tgggtgctact | actgagatct | ccaaggaaga | cgtcacctcc | 23820 |
| atcccaggtc | ccgctcaatc | cacaatatca | ccagacatct | ccacaagaac | cgtcagctgg | 23880 |
| ttctctacat | cccctgtcat | gacagaatca | gcagaaataa | ccatgaacac | ccatacaagt | 23940 |
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| acaatgacac | actcaactat | atctcaagga | ttttcacact | cacagatgag | cactcttatg | 24060 |
| aggaggggtc | ctgaggatgt | atcatggatg | agccctcccc | ttctggaaaa | aactagacct | 24120 |
| tccttttctc | tgatgtcttc | accagccaca | acttcacctt | ctcctgtttc | ctccacatta | 24180 |
| ccagagagca | tctcttcctc | tcctcttcct | gtgacttcac | tcctcacgtc | tggcttggca | 24240 |
| aaaactacag | atatgttgca | caaaagctca | gaacctgtaa | ccaactcacc | tgcaaatttg | 24300 |
| agcagcacct | cagttgaaat | actggccacc | tctgaagtca | ccacagatac | agagaaaact | 24360 |
| catccttctt | caaacagaac | agtgaccgat | gtggggacct | ccagttctgg | acatgaatcc | 24420 |
| acttcctttg | tcctagctga | ctcacagaca | tccaaagtca | catctccaat | ggttattacc | 24480 |
| tccaccatgg | aggatacgag | tgtctccaca | tcaactcctg | gcttttttga | gactagcaga | 24540 |
| attcagacag | aaccaacatc | ctccctgacc | cttggaactga | gaaagaccag | cagctctgag | 24600 |
| gggaccagct | tagccacaga | gatgagcact | gtcctttctg | gagtgccac | tggtgccact | 24660 |
| gctgaagtct | ccaggacaga | agtcacctcc | tctagcagaa | catccatctc | aggctttgct | 24720 |
| cagctcacag | tgtcaccaga | gacttccaca | gaaaccatca | ccagactccc | tacctccagc | 24780 |
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| ccagagagta | ctcatactgt | ggacatatca | acaacacca | actgggtaga | aaccactcg | 24900 |
| actgtgactc | agagattttc | acactcagag | atgaccactc | ttgtgagcag | aagccctggg | 24960 |
| gatatgttat | ggcctagtca | atcctctgtg | gaagaaacca | gctctgcctc | ttccctgctg | 25020 |
| tctctgcctg | ccacgacctc | accttctcct | gtttcctcta | cattagtaga | ggatttccct | 25080 |
| tccgcttctc | ttcctgtgac | ttctcttctc | acccctggcc | tggtgataac | cacagacagg | 25140 |
| atgggcataa | gcagagaacc | tggaaccagt | tccacttcaa | atttgagcag | cacctcccat | 25200 |
| gagagactga | ccactttgga | agacactgta | gatacagaag | acatgcagcc | ttccacacac | 25260 |
| acagcagtga | ccaacgtgag | gacctccatt | tctggacatg | aatcacaatc | ttctgtccta | 25320 |
| tctgactcag | agacacccaa | agccacatct | ccaatgggta | ccacctacac | catgggggaa | 25380 |

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| acatcctccc | tgacttctgg | attgagggag | accagcagct | ctgagaggat | cagctcagcc | 25500 |
| acagagggaa | gcactgtcct | ttctgaagtg | cccagtggtg | ctaccactga | ggtctccagg | 25560 |
| acagaagtga | tatcctctag | gggaacatcc | atgtcagggc | ctgatcagtt | caccatatca | 25620 |
| ccagacatct | ctactgaagc | gatcaccagg | ctttctactt | ccccattat | gacagaatca | 25680 |
| gcagaaagtg | ccatcactat | tgagacaggt | tctcctgggg | ctacatcaga | gggtaccctc | 25740 |
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| ttttcacact | cagagatgac | cactcttatg | agtagaactc | ctggagatgt | gccatggccg | 25860 |
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| actgcacttc | tcacccttgg | cccagtgaag | accacagaca | tgttgcgcac | aagctcagaa | 26040 |
| cctgaaacca | gttcacctcc | aaatttgagc | agcacctcag | ctgaaatatt | agccacgtct | 26100 |
| gaagtcacca | aagatagaga | gaaaattcat | ccctcctcaa | acacacctgt | agtcaatgta | 26160 |
| gggactgtga | tttataaaca | tctatcccct | tcctctgttt | tggctgactt | agtgacaaca | 26220 |
| aaaccacat | ctccaatggc | taccacctcc | actctgggga | atacaagtgt | ttccacatca | 26280 |
| actcctgcct | tcccagaaac | tatgatgaca | cagccaactt | cctccctgac | ttctggatta | 26340 |
| aggagatca | gtacctctca | agagaccagc | tcagcaacag | agagaagtgc | ttctctttct | 26400 |
| ggaatgcca | ctggtgctac | tactaaggct | tccagaacag | aagccctctc | cttaggcaga | 26460 |
| acatccaccc | caggtcctgc | tcaatccaca | atatcaccag | aatctccac | ggaaaccatc | 26520 |
| actagaattt | ctactcccct | caccacgaca | ggatcagcag | aatgaccat | cacccccaaa | 26580 |
| acaggtcatt | ctggggcatc | ctcacaaggt | acctttacct | tggacacatc | aagcagagcc | 26640 |
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| cctatgagca | gaggtcctga | ggatgtgtca | tggccaagcc | gcccacagtc | ggaaaaaact | 26760 |
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| | | | | | | |
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Leu Thr Pro Gln Met Thr Ala Thr His Pro Pro Ser Pro Asp Pro
1130 1135 1140

Gly Ser Ala Arg Ser Thr Trp Leu Gly Ile Leu Ser Ser Ser Pro
1145 1150 1155

Ser Ser Pro Thr Pro Lys Val Thr Met Ser Ser Thr Phe Ser Thr
1160 1165 1170

Gln Arg Val Thr Thr Ser Met Ile Met Asp Thr Val Glu Thr Ser
1175 1180 1185

Arg Trp Asn Met Pro Asn Leu Pro Ser Thr Thr Ser Leu Thr Pro
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| | | | | |
|------|------|------|-----|------|
| 1190 | | 1195 | | 1200 |
| Ser | Asn | Ile | Pro | Thr |
| 1205 | | | | |
| Ser | Gly | Ala | Ile | Gly |
| | 1210 | | | |
| Ser | | | | |
| 1215 | | | | |
| Thr | Leu | Val | | |
| | | | | |
| Pro | Leu | Asp | Thr | Pro |
| 1220 | | | | |
| Ser | Pro | Ala | Thr | Ser |
| | 1225 | | | |
| Leu | Glu | Ala | Ser | Glu |
| | 1230 | | | |
| Gly | Gly | Leu | Pro | Thr |
| 1235 | | | | |
| Ser | Thr | Tyr | Pro | Glu |
| | 1240 | | | |
| Ser | | | | |
| 1245 | | | | |
| Thr | Asn | Thr | | |
| | | | | |
| Pro | Ser | Ile | His | Leu |
| 1250 | | | | |
| Gly | Ala | His | Ala | Ser |
| | 1255 | | | |
| Ser | | | | |
| 1260 | | | | |
| Ser | Glu | Ser | Pro | Ser |
| | | | | |
| Thr | Ile | Asn | Leu | Thr |
| 1265 | | | | |
| Met | Ala | Ser | Val | Val |
| | 1270 | | | |
| Lys | Pro | Gly | Ser | Tyr |
| | 1275 | | | |
| Thr | Pro | Leu | Thr | Phe |
| 1280 | | | | |
| Pro | Ser | Ile | Glu | Thr |
| | 1285 | | | |
| His | Ile | His | Val | Ser |
| | 1290 | | | |
| Thr | Ala | Arg | Met | Ala |
| 1295 | | | | |
| Tyr | Ser | Ser | Gly | Ser |
| | 1300 | | | |
| Ser | Pro | Glu | Met | Thr |
| | 1305 | | | |
| Ala | Pro | Gly | Glu | Thr |
| 1310 | | | | |
| Asn | Thr | Gly | Ser | Thr |
| | 1315 | | | |
| Trp | Asp | Pro | Thr | Thr |
| | 1320 | | | |
| Tyr | Ile | Thr | Thr | Thr |
| 1325 | | | | |
| Asp | Pro | Lys | Asp | Thr |
| | 1330 | | | |
| Ser | Ser | Ala | Gln | Val |
| | 1335 | | | |
| Ser | Thr | Pro | His | Ser |
| 1340 | | | | |
| Val | Arg | Thr | Leu | Arg |
| | 1345 | | | |
| Thr | Thr | Glu | Asn | His |
| | 1350 | | | |
| Pro | Lys | Thr | Glu | Ser |
| 1355 | | | | |
| Ala | Thr | Pro | Ala | Ala |
| | 1360 | | | |
| Tyr | Ser | Gly | Ser | Pro |
| | 1365 | | | |
| Lys | Ile | Ser | Ser | Ser |
| 1370 | | | | |
| Pro | Asn | Leu | Thr | Ser |
| | 1375 | | | |
| Pro | Ala | Thr | Lys | Ala |
| | 1380 | | | |
| Trp | Thr | Ile | Thr | Asp |
| 1385 | | | | |
| Thr | Thr | Glu | His | Ser |
| | 1390 | | | |
| Thr | Gln | Leu | His | Tyr |
| | 1395 | | | |
| Thr | Lys | Leu | Ala | Glu |
| 1400 | | | | |
| Lys | Ser | Ser | Gly | Phe |
| | 1405 | | | |
| Glu | Thr | Gln | Ser | Ala |
| | 1410 | | | |
| Pro | Gly | Pro | Val | Ser |
| 1415 | | | | |
| Val | Ile | Pro | Thr | Ser |
| | 1420 | | | |
| Pro | Thr | Ile | Gly | |
| | 1425 | | | |

Ser Ser Thr Leu Glu Leu Thr Ser Asp Val Pro Gly Glu Pro Leu
 1430 1435 1440
 Val Leu Ala Pro Ser Glu Gln Thr Thr Ile Thr Leu Pro Met Ala
 1445 1450 1455
 Thr Trp Leu Ser Thr Ser Leu Thr Glu Glu Met Ala Ser Thr Asp
 1460 1465 1470
 Leu Asp Ile Ser Ser Pro Ser Ser Pro Met Ser Thr Phe Ala Ile
 1475 1480 1485
 Phe Pro Pro Met Ser Thr Pro Ser His Glu Leu Ser Lys Ser Glu
 1490 1495 1500
 Ala Asp Thr Ser Ala Ile Arg Asn Thr Asp Ser Thr Thr Leu Asp
 1505 1510 1515
 Gln His Leu Gly Ile Arg Ser Leu Gly Arg Thr Gly Asp Leu Thr
 1520 1525 1530
 Thr Val Pro Ile Thr Pro Leu Thr Thr Thr Trp Thr Ser Val Ile
 1535 1540 1545
 Glu His Ser Thr Gln Ala Gln Asp Thr Leu Ser Ala Thr Met Ser
 1550 1555 1560
 Pro Thr His Val Thr Gln Ser Leu Lys Asp Gln Thr Ser Ile Pro
 1565 1570 1575
 Ala Ser Ala Ser Pro Ser His Leu Thr Glu Val Tyr Pro Glu Leu
 1580 1585 1590
 Gly Thr Gln Gly Arg Ser Ser Ser Glu Ala Thr Thr Phe Trp Lys
 1595 1600 1605
 Pro Ser Thr Asp Thr Leu Ser Arg Glu Ile Glu Thr Gly Pro Thr
 1610 1615 1620
 Asn Ile Gln Ser Thr Pro Pro Met Asp Asn Thr Thr Thr Gly Ser
 1625 1630 1635
 Ser Ser Ser Gly Val Thr Leu Gly Ile Ala His Leu Pro Ile Gly
 1640 1645 1650
 Thr Ser Ser Pro Ala Glu Thr Ser Thr Asn Met Ala Leu Glu Arg
 1655 1660 1665

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Arg Ser Ser Thr Ala Thr Val Ser Met Ala Gly Thr Met Gly Leu
1670 1675 1680

Leu Val Thr Ser Ala Pro Gly Arg Ser Ile Ser Gln Ser Leu Gly
1685 1690 1695

Arg Val Ser Ser Val Leu Ser Glu Ser Thr Thr Glu Gly Val Thr
1700 1705 1710

Asp Ser Ser Lys Gly Ser Ser Pro Arg Leu Asn Thr Gln Gly Asn
1715 1720 1725

Thr Ala Leu Ser Ser Ser Leu Glu Pro Ser Tyr Ala Glu Gly Ser
1730 1735 1740

Gln Met Ser Thr Ser Ile Pro Leu Thr Ser Ser Pro Thr Thr Pro
1745 1750 1755

Asp Val Glu Phe Ile Gly Gly Ser Thr Phe Trp Thr Lys Glu Val
1760 1765 1770

Thr Thr Val Met Thr Ser Asp Ile Ser Lys Ser Ser Ala Arg Thr
1775 1780 1785

Glu Ser Ser Ser Ala Thr Leu Met Ser Thr Ala Leu Gly Ser Thr
1790 1795 1800

Glu Asn Thr Gly Lys Glu Lys Leu Arg Thr Ala Ser Met Asp Leu
1805 1810 1815

Pro Ser Pro Thr Pro Ser Met Glu Val Thr Pro Trp Ile Ser Leu
1820 1825 1830

Thr Leu Ser Asn Ala Pro Asn Thr Thr Asp Ser Leu Asp Leu Ser
1835 1840 1845

His Gly Val His Thr Ser Ser Ala Gly Thr Leu Ala Thr Asp Arg
1850 1855 1860

Ser Leu Asn Thr Gly Val Thr Arg Ala Ser Arg Leu Glu Asn Gly
1865 1870 1875

Ser Asp Thr Ser Ser Lys Ser Leu Ser Met Gly Asn Ser Thr His
1880 1885 1890

Thr Ser Met Thr Asp Thr Glu Lys Ser Glu Val Ser Ser Ser Ile
1895 1900 1905

His Pro Arg Pro Glu Thr Ser Ala Pro Gly Ala Glu Thr Thr Leu
 1910 1915 1920
 Thr Ser Thr Pro Gly Asn Arg Ala Ile Ser Leu Thr Leu Pro Phe
 1925 1930 1935
 Ser Ser Ile Pro Val Glu Glu Val Ile Ser Thr Gly Ile Thr Ser
 1940 1945 1950
 Gly Pro Asp Ile Asn Ser Ala Pro Met Thr His Ser Pro Ile Thr
 1955 1960 1965
 Pro Pro Thr Ile Val Trp Thr Ser Thr Gly Thr Ile Glu Gln Ser
 1970 1975 1980
 Thr Gln Pro Leu His Ala Val Ser Ser Glu Lys Val Ser Val Gln
 1985 1990 1995
 Thr Gln Ser Thr Pro Tyr Val Asn Ser Val Ala Val Ser Ala Ser
 2000 2005 2010
 Pro Thr His Glu Asn Ser Val Ser Ser Gly Ser Ser Thr Ser Ser
 2015 2020 2025
 Pro Tyr Ser Ser Ala Ser Leu Glu Ser Leu Asp Ser Thr Ile Ser
 2030 2035 2040
 Arg Arg Asn Ala Ile Thr Ser Trp Leu Trp Asp Leu Thr Thr Ser
 2045 2050 2055
 Leu Pro Thr Thr Thr Trp Pro Ser Thr Ser Leu Ser Glu Ala Leu
 2060 2065 2070
 Ser Ser Gly His Ser Gly Val Ser Asn Pro Ser Ser Thr Thr Thr
 2075 2080 2085
 Glu Phe Pro Leu Phe Ser Ala Ala Ser Thr Ser Ala Ala Lys Gln
 2090 2095 2100
 Arg Asn Pro Glu Thr Glu Thr His Gly Pro Gln Asn Thr Ala Ala
 2105 2110 2115
 Ser Thr Leu Asn Thr Asp Ala Ser Ser Val Thr Gly Leu Ser Glu
 2120 2125 2130
 Thr Pro Val Gly Ala Ser Ile Ser Ser Glu Val Pro Leu Pro Met
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2135

2140

2145

Ala Ile Thr Ser Arg Ser Asp Val Ser Gly Leu Thr Ser Glu Ser
2150 2155 2160

Thr Ala Asn Pro Ser Leu Gly Thr Ala Ser Ser Ala Gly Thr Lys
2165 2170 2175

Leu Thr Arg Thr Ile Ser Leu Pro Thr Ser Glu Ser Leu Val Ser
2180 2185 2190

Phe Arg Met Asn Lys Asp Pro Trp Thr Val Ser Ile Pro Leu Gly
2195 2200 2205

Ser His Pro Thr Thr Asn Thr Glu Thr Ser Ile Pro Val Asn Ser
2210 2215 2220

Ala Gly Pro Pro Gly Leu Ser Thr Val Ala Ser Asp Val Ile Asp
2225 2230 2235

Thr Pro Ser Asp Gly Ala Glu Ser Ile Pro Thr Val Ser Phe Ser
2240 2245 2250

Pro Ser Pro Asp Thr Glu Val Thr Thr Ile Ser His Phe Pro Glu
2255 2260 2265

Lys Thr Thr His Ser Phe Arg Thr Ile Ser Ser Leu Thr His Glu
2270 2275 2280

Leu Thr Ser Arg Val Thr Pro Ile Pro Gly Asp Trp Met Ser Ser
2285 2290 2295

Ala Met Ser Thr Lys Pro Thr Gly Ala Ser Pro Ser Ile Thr Leu
2300 2305 2310

Gly Glu Arg Arg Thr Ile Thr Ser Ala Ala Pro Thr Thr Ser Pro
2315 2320 2325

Ile Val Leu Thr Ala Ser Phe Thr Glu Thr Ser Thr Val Ser Leu
2330 2335 2340

Asp Asn Glu Thr Thr Val Lys Thr Ser Asp Ile Leu Asp Ala Arg
2345 2350 2355

Lys Thr Asn Glu Leu Pro Ser Asp Ser Ser Ser Ser Ser Asp Leu
2360 2365 2370

Ile Asn Thr Ser Ile Ala Ser Ser Thr Met Asp Val Thr Lys Thr
 2375 2380 2385
 Ala Ser Ile Ser Pro Thr Ser Ile Ser Gly Met Thr Ala Ser Ser
 2390 2395 2400
 Ser Pro Ser Leu Phe Ser Ser Asp Arg Pro Gln Val Pro Thr Ser
 2405 2410 2415
 Thr Thr Glu Thr Asn Thr Ala Thr Ser Pro Ser Val Ser Ser Asn
 2420 2425 2430
 Thr Tyr Ser Leu Asp Gly Gly Ser Asn Val Gly Gly Thr Pro Ser
 2435 2440 2445
 Thr Leu Pro Pro Phe Thr Ile Thr His Pro Val Glu Thr Ser Ser
 2450 2455 2460
 Ala Leu Leu Ala Trp Ser Arg Pro Val Arg Thr Phe Ser Thr Met
 2465 2470 2475
 Val Ser Thr Asp Thr Ala Ser Gly Glu Asn Pro Thr Ser Ser Asn
 2480 2485 2490
 Ser Val Val Thr Ser Val Pro Ala Pro Gly Thr Trp Ala Ser Val
 2495 2500 2505
 Gly Ser Thr Thr Asp Leu Pro Ala Met Gly Phe Leu Lys Thr Ser
 2510 2515 2520
 Pro Ala Gly Glu Ala His Ser Leu Leu Ala Ser Thr Ile Glu Pro
 2525 2530 2535
 Ala Thr Ala Phe Thr Pro His Leu Ser Ala Ala Val Val Thr Gly
 2540 2545 2550
 Ser Ser Ala Thr Ser Glu Ala Ser Leu Leu Thr Thr Ser Glu Ser
 2555 2560 2565
 Lys Ala Ile His Ser Ser Pro Gln Thr Pro Thr Thr Pro Thr Ser
 2570 2575 2580
 Gly Ala Asn Trp Glu Thr Ser Ala Thr Pro Glu Ser Leu Leu Val
 2585 2590 2595
 Val Thr Glu Thr Ser Asp Thr Thr Leu Thr Ser Lys Ile Leu Val
 2600 2605 2610

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| | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|
| Thr | Asp | Thr | Ile | Leu | Phe | Ser | Thr | Val | Ser | Thr | Pro | Pro | Ser | Lys |
| | 2615 | | | | | 2620 | | | | | 2625 | | | |
| Phe | Pro | Ser | Thr | Gly | Thr | Leu | Ser | Gly | Ala | Ser | Phe | Pro | Thr | Leu |
| | 2630 | | | | | 2635 | | | | | 2640 | | | |
| Leu | Pro | Asp | Thr | Pro | Ala | Ile | Pro | Leu | Thr | Ala | Thr | Glu | Pro | Thr |
| | 2645 | | | | | 2650 | | | | | 2655 | | | |
| Ser | Ser | Leu | Ala | Thr | Ser | Phe | Asp | Ser | Thr | Pro | Leu | Val | Thr | Ile |
| | 2660 | | | | | 2665 | | | | | 2670 | | | |
| Ala | Ser | Asp | Ser | Leu | Gly | Thr | Val | Pro | Glu | Thr | Thr | Leu | Thr | Met |
| | 2675 | | | | | 2680 | | | | | 2685 | | | |
| Ser | Glu | Thr | Ser | Asn | Gly | Asp | Ala | Leu | Val | Leu | Lys | Thr | Val | Ser |
| | 2690 | | | | | 2695 | | | | | 2700 | | | |
| Asn | Pro | Asp | Arg | Ser | Ile | Pro | Gly | Ile | Thr | Ile | Gln | Gly | Val | Thr |
| | 2705 | | | | | 2710 | | | | | 2715 | | | |
| Glu | Ser | Pro | Leu | His | Pro | Ser | Ser | Thr | Ser | Pro | Ser | Lys | Ile | Val |
| | 2720 | | | | | 2725 | | | | | 2730 | | | |
| Ala | Pro | Arg | Asn | Thr | Thr | Tyr | Glu | Gly | Ser | Ile | Thr | Val | Ala | Leu |
| | 2735 | | | | | 2740 | | | | | 2745 | | | |
| Ser | Thr | Leu | Pro | Ala | Gly | Thr | Thr | Gly | Ser | Leu | Val | Phe | Ser | Gln |
| | 2750 | | | | | 2755 | | | | | 2760 | | | |
| Ser | Ser | Glu | Asn | Ser | Glu | Thr | Thr | Ala | Leu | Val | Asp | Ser | Ser | Ala |
| | 2765 | | | | | 2770 | | | | | 2775 | | | |
| Gly | Leu | Glu | Arg | Ala | Ser | Val | Met | Pro | Leu | Thr | Thr | Gly | Ser | Gln |
| | 2780 | | | | | 2785 | | | | | 2790 | | | |
| Gly | Met | Ala | Ser | Ser | Gly | Gly | Ile | Arg | Ser | Gly | Ser | Thr | His | Ser |
| | 2795 | | | | | 2800 | | | | | 2805 | | | |
| Thr | Gly | Thr | Lys | Thr | Phe | Ser | Ser | Leu | Pro | Leu | Thr | Met | Asn | Pro |
| | 2810 | | | | | 2815 | | | | | 2820 | | | |
| Gly | Glu | Val | Thr | Ala | Met | Ser | Glu | Ile | Thr | Thr | Asn | Arg | Leu | Thr |
| | 2825 | | | | | 2830 | | | | | 2835 | | | |
| Ala | Thr | Gln | Ser | Thr | Ala | Pro | Lys | Gly | Ile | Pro | Val | Lys | Pro | Thr |
| | 2840 | | | | | 2845 | | | | | 2850 | | | |

Ser Ala Glu Ser Gly Leu Leu Thr Pro Val Ser Ala Ser Ser Ser
 2855 2860 2865
 Pro Ser Lys Ala Phe Ala Ser Leu Thr Thr Ala Pro Pro Ser Thr
 2870 2875 2880
 Trp Gly Ile Pro Gln Ser Thr Leu Thr Phe Glu Phe Ser Glu Val
 2885 2890 2895
 Pro Ser Leu Asp Thr Lys Ser Ala Ser Leu Pro Thr Pro Gly Gln
 2900 2905 2910
 Ser Leu Asn Thr Ile Pro Asp Ser Asp Ala Ser Thr Ala Ser Ser
 2915 2920 2925
 Ser Leu Ser Lys Ser Pro Glu Lys Asn Pro Arg Ala Arg Met Met
 2930 2935 2940
 Thr Ser Thr Lys Ala Ile Ser Ala Ser Ser Phe Gln Ser Thr Gly
 2945 2950 2955
 Phe Thr Glu Thr Pro Glu Gly Ser Ala Ser Pro Ser Met Ala Gly
 2960 2965 2970
 His Glu Pro Arg Val Pro Thr Ser Gly Thr Gly Asp Pro Arg Tyr
 2975 2980 2985
 Ala Ser Glu Ser Met Ser Tyr Pro Asp Pro Ser Lys Ala Ser Ser
 2990 2995 3000
 Ala Met Thr Ser Thr Ser Leu Ala Ser Lys Leu Thr Thr Leu Phe
 3005 3010 3015
 Ser Thr Gly Gln Ala Ala Arg Ser Gly Ser Ser Ser Ser Pro Ile
 3020 3025 3030
 Ser Leu Ser Thr Glu Lys Glu Thr Ser Phe Leu Ser Pro Thr Ala
 3035 3040 3045
 Ser Thr Ser Arg Lys Thr Ser Leu Phe Leu Gly Pro Ser Met Ala
 3050 3055 3060
 Arg Gln Pro Asn Ile Leu Val His Leu Gln Thr Ser Ala Leu Thr
 3065 3070 3075
 Leu Ser Pro Thr Ser Thr Leu Asn Met Ser Gln Glu Glu Pro Pro

3080

3085

3090

Glu Leu Thr Ser Ser Gln Thr Ile Ala Glu Glu Glu Gly Thr Thr
 3095 3100 3105

Ala Glu Thr Gln Thr Leu Thr Phe Thr Pro Ser Glu Thr Pro Thr
 3110 3115 3120

Ser Leu Leu Pro Val Ser Ser Pro Thr Glu Pro Thr Ala Arg Arg
 3125 3130 3135

Lys Ser Ser Pro Glu Thr Trp Ala Ser Ser Ile Ser Val Pro Ala
 3140 3145 3150

Lys Thr Ser Leu Val Glu Thr Thr Asp Gly Thr Leu Val Thr Thr
 3155 3160 3165

Ile Lys Met Ser Ser Gln Ala Ala Gln Gly Asn Ser Thr Trp Pro
 3170 3175 3180

Ala Pro Ala Glu Glu Thr Gly Thr Ser Pro Ala Gly Thr Ser Pro
 3185 3190 3195

Gly Ser Pro Glu Val Ser Thr Thr Leu Lys Ile Met Ser Ser Lys
 3200 3205 3210

Glu Pro Ser Ile Ser Pro Glu Ile Arg Ser Thr Val Arg Asn Ser
 3215 3220 3225

Pro Trp Lys Thr Pro Glu Thr Thr Val Pro Met Glu Thr Thr Val
 3230 3235 3240

Glu Pro Val Thr Leu Gln Ser Thr Ala Leu Gly Ser Gly Ser Thr
 3245 3250 3255

Ser Ile Ser His Leu Pro Thr Gly Thr Thr Ser Pro Thr Lys Ser
 3260 3265 3270

Pro Thr Glu Asn Met Leu Ala Thr Glu Arg Val Ser Leu Ser Pro
 3275 3280 3285

Ser Pro Pro Glu Ala Trp Thr Asn Leu Tyr Ser Gly Thr Pro Gly
 3290 3295 3300

Gly Thr Arg Gln Ser Leu Ala Thr Met Ser Ser Val Ser Leu Glu
 3305 3310 3315

Ser Pro Thr Ala Arg Ser Ile Thr Gly Thr Gly Gln Gln Ser Ser
 3320 3325 3330
 Pro Glu Leu Val Ser Lys Thr Thr Gly Met Glu Phe Ser Met Trp
 3335 3340 3345
 His Gly Ser Thr Gly Gly Thr Thr Gly Asp Thr His Val Ser Leu
 3350 3355 3360
 Ser Thr Ser Ser Asn Ile Leu Glu Asp Pro Val Thr Ser Pro Asn
 3365 3370 3375
 Ser Val Ser Ser Leu Thr Asp Lys Ser Lys His Lys Thr Glu Thr
 3380 3385 3390
 Trp Val Ser Thr Thr Ala Ile Pro Ser Thr Val Leu Asn Asn Lys
 3395 3400 3405
 Ile Met Ala Ala Glu Gln Gln Thr Ser Arg Ser Val Asp Glu Ala
 3410 3415 3420
 Tyr Ser Ser Thr Ser Ser Trp Ser Asp Gln Thr Ser Gly Ser Asp
 3425 3430 3435
 Ile Thr Leu Gly Ala Ser Pro Asp Val Thr Asn Thr Leu Tyr Ile
 3440 3445 3450
 Thr Ser Thr Ala Gln Thr Thr Ser Leu Val Ser Leu Pro Ser Gly
 3455 3460 3465
 Asp Gln Gly Ile Thr Ser Leu Thr Asn Pro Ser Gly Gly Lys Thr
 3470 3475 3480
 Ser Ser Ala Ser Ser Val Thr Ser Pro Ser Ile Gly Leu Glu Thr
 3485 3490 3495
 Leu Arg Ala Asn Val Ser Ala Val Lys Ser Asp Ile Ala Pro Thr
 3500 3505 3510
 Ala Gly His Leu Ser Gln Thr Ser Ser Pro Ala Glu Val Ser Ile
 3515 3520 3525
 Leu Asp Val Thr Thr Ala Pro Thr Pro Gly Ile Ser Thr Thr Ile
 3530 3535 3540
 Thr Thr Met Gly Thr Asn Ser Ile Ser Thr Thr Thr Pro Asn Pro
 3545 3550 3555

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Glu Val Gly Met Ser Thr Met Asp Ser Thr Pro Ala Thr Glu Arg
 3560 3565 3570
 Arg Thr Thr Ser Thr Glu His Pro Ser Thr Trp Ser Ser Thr Ala
 3575 3580 3585
 Ala Ser Asp Ser Trp Thr Val Thr Asp Met Thr Ser Asn Leu Lys
 3590 3595 3600
 Val Ala Arg Ser Pro Gly Thr Ile Ser Thr Met His Thr Thr Ser
 3605 3610 3615
 Phe Leu Ala Ser Ser Thr Glu Leu Asp Ser Met Ser Thr Pro His
 3620 3625 3630
 Gly Arg Ile Thr Val Ile Gly Thr Ser Leu Val Thr Pro Ser Ser
 3635 3640 3645
 Asp Ala Ser Ala Val Lys Thr Glu Thr Ser Thr Ser Glu Arg Thr
 3650 3655 3660
 Leu Ser Pro Ser Asp Thr Thr Ala Ser Thr Pro Ile Ser Thr Phe
 3665 3670 3675
 Ser Arg Val Gln Arg Met Ser Ile Ser Val Pro Asp Ile Leu Ser
 3680 3685 3690
 Thr Ser Trp Thr Pro Ser Ser Thr Glu Ala Glu Asp Val Pro Val
 3695 3700 3705
 Ser Met Val Pro Thr Asp His Ala Ser Thr Lys Thr Asp Pro Asn
 3710 3715 3720
 Thr Pro Leu Ser Thr Phe Leu Phe Asp Ser Leu Ser Thr Leu Asp
 3725 3730 3735
 Trp Asp Thr Gly Arg Ser Leu Ser Ser Ala Thr Ala Thr Thr Ser
 3740 3745 3750
 Ala Pro Gln Gly Ala Thr Thr Pro Gln Glu Leu Thr Leu Glu Thr
 3755 3760 3765
 Met Ile Ser Pro Ala Thr Ser Gln Leu Pro Phe Ser Ile Gly His
 3770 3775 3780
 Ile Thr Ser Ala Val Thr Pro Ala Ala Met Ala Arg Ser Ser Gly
 3785 3790 3795

Val Thr Phe Ser Arg Pro Asp Pro Thr Ser Lys Lys Ala Glu Gln
 3800 3805 3810
 Thr Ser Thr Gln Leu Pro Thr Thr Thr Ser Ala His Pro Gly Gln
 3815 3820 3825
 Val Pro Arg Ser Ala Ala Thr Thr Leu Asp Val Ile Pro His Thr
 3830 3835 3840
 Ala Lys Thr Pro Asp Ala Thr Phe Gln Arg Gln Gly Gln Thr Ala
 3845 3850 3855
 Leu Thr Thr Glu Ala Arg Ala Thr Ser Asp Ser Trp Asn Glu Lys
 3860 3865 3870
 Glu Lys Ser Thr Pro Ser Ala Pro Trp Ile Thr Glu Met Met Asn
 3875 3880 3885
 Ser Val Ser Glu Asp Thr Ile Lys Glu Val Thr Ser Ser Ser Ser
 3890 3895 3900
 Val Leu Lys Asp Pro Glu Tyr Ala Gly His Lys Leu Gly Ile Trp
 3905 3910 3915
 Asp Asp Phe Ile Pro Lys Phe Gly Lys Ala Ala His Met Arg Glu
 3920 3925 3930
 Leu Pro Leu Leu Ser Pro Pro Gln Asp Lys Glu Ala Ile His Pro
 3935 3940 3945
 Ser Thr Asn Thr Val Glu Thr Thr Gly Trp Val Thr Ser Ser Glu
 3950 3955 3960
 His Ala Ser His Ser Thr Ile Pro Ala His Ser Ala Ser Ser Lys
 3965 3970 3975
 Leu Thr Ser Pro Val Val Thr Thr Ser Thr Arg Glu Gln Ala Ile
 3980 3985 3990
 Val Ser Met Ser Thr Thr Thr Trp Pro Glu Ser Thr Arg Ala Arg
 3995 4000 4005
 Thr Glu Pro Asn Ser Phe Leu Thr Ile Glu Leu Arg Asp Val Ser
 4010 4015 4020
 Pro Tyr Met Asp Thr Ser Ser Thr Thr Gln Thr Ser Ile Ile Ser
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4025 4030 4035
 Ser Pro Gly Ser Thr Ala Ile Thr Lys Gly His Arg Thr Glu Ile
 4040 4045 4050
 Thr Ser Tyr Lys Arg Ile Ser Ser Ser Phe Leu Ala Gln Ser Met
 4055 4060 4065
 Arg Ser Ser Asp Ser Pro Ser Glu Ala Ile Thr Arg Leu Ser Asn
 4070 4075 4080
 Phe Pro Ala Met Thr Glu Ser Gly Gly Met Ile Leu Ala Met Gln
 4085 4090 4095
 Thr Ser Pro Pro Gly Ala Thr Ser Ile Ser Ala Pro Thr Leu Asp
 4100 4105 4110
 Thr Ser Ala Thr Ala Ser Trp Thr Gly Thr Pro Leu Ala Thr Thr
 4115 4120 4125
 Gln Arg Phe Thr Tyr Ser Glu Lys Thr Thr Leu Phe Ser Lys Gly
 4130 4135 4140
 Arg Glu Asp Thr Ser Gln Pro Ser Pro Pro Cys Val Glu Glu Thr
 4145 4150 4155
 Ser Ser Ser Ser Ser Val Val Pro Ile His Ala Thr Thr Ser Pro
 4160 4165 4170
 Ser Asn Ile Leu Leu Thr Ser Gln Gly His Ser Pro Ser Ser Thr
 4175 4180 4185
 Pro Pro Val Thr Ser Val Phe Leu Ser Glu Thr Ser Gly Leu Gly
 4190 4195 4200
 Lys Thr Thr Asp Met Ser Arg Ile Ser Leu Glu Pro Gly Thr Ser
 4205 4210 4215
 Leu Pro Pro Asn Leu Ser Ser Thr Ala Gly Glu Ala Leu Ser Thr
 4220 4225 4230
 Tyr Glu Ala Ser Arg Asp Thr Lys Ala Ile His His Ser Ala Asp
 4235 4240 4245
 Thr Ala Val Thr Asn Met Glu Ala Thr Ser Ser Glu Tyr Ser Pro
 4250 4255 4260

Ile Pro Gly His Thr Lys Pro Ser Lys Ala Thr Ser Pro Leu Val
 4265 4270 4275
 Thr Ser His Ile Met Gly Asp Ile Thr Ser Ser Thr Ser Val Phe
 4280 4285 4290
 Gly Ser Ser Glu Thr Thr Glu Ile Glu Thr Val Ser Ser Val Asn
 4295 4300 4305
 Gln Gly Leu Gln Glu Arg Ser Thr Ser Gln Val Ala Ser Ser Ala
 4310 4315 4320
 Thr Glu Thr Ser Thr Val Ile Thr His Val Ser Ser Gly Asp Ala
 4325 4330 4335
 Thr Thr His Val Thr Lys Thr Gln Ala Thr Phe Ser Ser Gly Thr
 4340 4345 4350
 Ser Ile Ser Ser Pro His Gln Phe Ile Thr Ser Thr Asn Thr Phe
 4355 4360 4365
 Thr Asp Val Ser Thr Asn Pro Ser Thr Ser Leu Ile Met Thr Glu
 4370 4375 4380
 Ser Ser Gly Val Thr Ile Thr Thr Gln Thr Gly Pro Thr Gly Ala
 4385 4390 4395
 Ala Thr Gln Gly Pro Tyr Leu Leu Asp Thr Ser Thr Met Pro Tyr
 4400 4405 4410
 Leu Thr Glu Thr Pro Leu Ala Val Thr Pro Asp Phe Met Gln Ser
 4415 4420 4425
 Glu Lys Thr Thr Leu Ile Ser Lys Gly Pro Lys Asp Val Thr Trp
 4430 4435 4440
 Thr Ser Pro Pro Ser Val Ala Glu Thr Ser Tyr Pro Ser Ser Leu
 4445 4450 4455
 Thr Pro Phe Leu Val Thr Thr Ile Pro Pro Ala Thr Ser Thr Leu
 4460 4465 4470
 Gln Gly Gln His Thr Ser Ser Pro Val Ser Ala Thr Ser Val Leu
 4475 4480 4485
 Thr Ser Gly Leu Val Lys Thr Thr Asp Met Leu Asn Thr Ser Met
 4490 4495 4500

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Glu Pro Val Thr Asn Ser Pro Gln Asn Leu Asn Asn Pro Ser Asn
 4505 4510 4515
 Glu Ile Leu Ala Thr Leu Ala Ala Thr Thr Asp Ile Glu Thr Ile
 4520 4525 4530
 His Pro Ser Ile Asn Lys Ala Val Thr Asn Met Gly Thr Ala Ser
 4535 4540 4545
 Ser Ala His Val Leu His Ser Thr Leu Pro Val Ser Ser Glu Pro
 4550 4555 4560
 Ser Thr Ala Thr Ser Pro Met Val Pro Ala Ser Ser Met Gly Asp
 4565 4570 4575
 Ala Leu Ala Ser Ile Ser Ile Pro Gly Ser Glu Thr Thr Asp Ile
 4580 4585 4590
 Glu Gly Glu Pro Thr Ser Ser Leu Thr Ala Gly Arg Lys Glu Asn
 4595 4600 4605
 Ser Thr Leu Gln Glu Met Asn Ser Thr Thr Glu Ser Asn Ile Ile
 4610 4615 4620
 Leu Ser Asn Val Ser Val Gly Ala Ile Thr Glu Ala Thr Lys Met
 4625 4630 4635
 Glu Val Pro Ser Phe Asp Ala Thr Phe Ile Pro Thr Pro Ala Gln
 4640 4645 4650
 Ser Thr Lys Phe Pro Asp Ile Phe Ser Val Ala Ser Ser Arg Leu
 4655 4660 4665
 Ser Asn Ser Pro Pro Met Thr Ile Ser Thr His Met Thr Thr Thr
 4670 4675 4680
 Gln Thr Gly Ser Ser Gly Ala Thr Ser Lys Ile Pro Leu Ala Leu
 4685 4690 4695
 Asp Thr Ser Thr Leu Glu Thr Ser Ala Gly Thr Pro Ser Val Val
 4700 4705 4710
 Thr Glu Gly Phe Ala His Ser Lys Ile Thr Thr Ala Met Asn Asn
 4715 4720 4725
 Asp Val Lys Asp Val Ser Gln Thr Asn Pro Pro Phe Gln Asp Glu
 4730 4735 4740

Ala Ser Ser Pro Ser Ser Gln Ala Pro Val Leu Val Thr Thr Leu
 4745 4750 4755
 Pro Ser Ser Val Ala Phe Thr Pro Gln Trp His Ser Thr Ser Ser
 4760 4765 4770
 Pro Val Ser Met Ser Ser Val Leu Thr Ser Ser Leu Val Lys Thr
 4775 4780 4785
 Ala Gly Lys Val Asp Thr Ser Leu Glu Thr Val Thr Ser Ser Pro
 4790 4795 4800
 Gln Ser Met Ser Asn Thr Leu Asp Asp Ile Ser Val Thr Ser Ala
 4805 4810 4815
 Ala Thr Thr Asp Ile Glu Thr Thr His Pro Ser Ile Asn Thr Val
 4820 4825 4830
 Val Thr Asn Val Gly Thr Thr Gly Ser Ala Phe Glu Ser His Ser
 4835 4840 4845
 Thr Val Ser Ala Tyr Pro Glu Pro Ser Lys Val Thr Ser Pro Asn
 4850 4855 4860
 Val Thr Thr Ser Thr Met Glu Asp Thr Thr Ile Ser Arg Ser Ile
 4865 4870 4875
 Pro Lys Ser Ser Lys Thr Thr Arg Thr Glu Thr Glu Thr Thr Ser
 4880 4885 4890
 Ser Leu Thr Pro Lys Leu Arg Glu Thr Ser Ile Ser Gln Glu Ile
 4895 4900 4905
 Thr Ser Ser Thr Glu Thr Ser Thr Val Pro Tyr Lys Glu Leu Thr
 4910 4915 4920
 Gly Ala Thr Thr Glu Val Ser Arg Thr Asp Val Thr Ser Ser Ser
 4925 4930 4935
 Ser Thr Ser Phe Pro Gly Pro Asp Gln Ser Thr Val Ser Leu Asp
 4940 4945 4950
 Ile Ser Thr Glu Thr Asn Thr Arg Leu Ser Thr Ser Pro Ile Met
 4955 4960 4965
 Thr Glu Ser Ala Glu Ile Thr Ile Thr Thr Gln Thr Gly Pro His
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4970

4975

4980

Gly Ala Thr Ser Gln Asp Thr Phe Thr Met Asp Pro Ser Asn Thr
 4985 4990 4995
 Thr Pro Gln Ala Gly Ile His Ser Ala Met Thr His Gly Phe Ser
 5000 5005 5010
 Gln Leu Asp Val Thr Thr Leu Met Ser Arg Ile Pro Gln Asp Val
 5015 5020 5025
 Ser Trp Thr Ser Pro Pro Ser Val Asp Lys Thr Ser Ser Pro Ser
 5030 5035 5040
 Ser Phe Leu Ser Ser Pro Ala Met Thr Thr Pro Ser Leu Ile Ser
 5045 5050 5055
 Ser Thr Leu Pro Glu Asp Lys Leu Ser Ser Pro Met Thr Ser Leu
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 Leu Thr Ser Gly Leu Val Lys Ile Thr Asp Ile Leu Arg Thr Arg
 5075 5080 5085
 Leu Glu Pro Val Thr Ser Ser Leu Pro Asn Phe Ser Ser Thr Ser
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 Asp Lys Ile Leu Ala Thr Ser Lys Asp Ser Lys Asp Thr Lys Glu
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 Ile Phe Pro Ser Ile Asn Thr Glu Glu Thr Asn Val Lys Ala Asn
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 Asn Ser Gly His Glu Ser His Ser Pro Ala Leu Ala Asp Ser Glu
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 Thr Pro Lys Ala Thr Thr Gln Met Val Ile Thr Thr Thr Val Gly
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 Asp Pro Ala Pro Ser Thr Ser Met Pro Val His Gly Ser Ser Glu
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 Leu Arg Glu Thr Ser Thr Ser Gln Glu Ser Ser Phe Pro Thr Asp
 5195 5200 5205

Thr Ser Phe Leu Leu Ser Lys Val Pro Thr Gly Thr Ile Thr Glu
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 Val Ser Ser Thr Gly Val Ile Ser Ser Ser Lys Ile Ser Thr Pro
 5225 5230 5235
 Asp His Asp Lys Ser Thr Val Pro Pro Asp Thr Phe Thr Gly Glu
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 Ile Pro Arg Val Phe Thr Ser Ser Ile Lys Thr Lys Ser Ala Glu
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 Met Thr Ile Thr Thr Gln Ala Ser Pro Pro Glu Ser Ala Ser His
 5270 5275 5280
 Ser Thr Leu Pro Leu Asp Thr Ser Thr Thr Leu Ser Gln Gly Gly
 5285 5290 5295
 Thr His Ser Thr Val Ser Gln Gly Phe Pro Tyr Ser Glu Val Thr
 5300 5305 5310
 Thr Leu Met Gly Met Gly Pro Gly Asn Val Ser Trp Met Thr Thr
 5315 5320 5325
 Pro Pro Val Glu Glu Thr Ser Ser Val Ser Ser Leu Met Ser Ser
 5330 5335 5340
 Pro Ala Met Thr Ser Pro Ser Pro Val Ser Ser Thr Ser Pro Gln
 5345 5350 5355
 Ser Ile Pro Ser Ser Pro Leu Pro Val Thr Ala Leu Pro Thr Ser
 5360 5365 5370
 Val Leu Val Thr Thr Thr Asp Val Leu Gly Thr Thr Ser Pro Glu
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 Ser Val Thr Ser Ser Pro Pro Asn Leu Ser Ser Ile Thr His Glu
 5390 5395 5400
 Arg Pro Ala Thr Tyr Lys Asp Thr Ala His Thr Glu Ala Ala Met
 5405 5410 5415
 His His Ser Thr Asn Thr Ala Val Thr Asn Val Gly Thr Ser Gly
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 Ser Gly His Lys Ser Gln Ser Ser Val Leu Ala Asp Ser Glu Thr
 5435 5440 5445

Ser Lys Ala Thr Pro Leu Met Ser Thr Ala Ser Thr Leu Gly Asp
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 Thr Ser Val Ser Thr Ser Thr Pro Asn Ile Ser Gln Thr Asn Gln
 5465 5470 5475
 Ile Gln Thr Glu Pro Thr Ala Ser Leu Ser Pro Arg Leu Arg Glu
 5480 5485 5490
 Ser Ser Thr Ser Glu Lys Thr Ser Ser Thr Thr Glu Thr Asn Thr
 5495 5500 5505
 Ala Phe Ser Tyr Val Pro Thr Gly Ala Ile Thr Gln Ala Ser Arg
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 Thr Glu Ile Ser Ser Ser Arg Thr Ser Ile Ser Asp Leu Asp Arg
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 Ser Thr Ile Ala Pro Asp Ile Ser Thr Gly Met Ile Thr Arg Leu
 5540 5545 5550
 Phe Thr Ser Pro Ile Met Thr Lys Ser Ala Glu Met Thr Val Thr
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 Thr Gln Thr Thr Thr Pro Gly Ala Thr Ser Gln Gly Ile Leu Pro
 5570 5575 5580
 Trp Asp Thr Ser Thr Thr Leu Phe Gln Gly Gly Thr His Ser Thr
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 Val Ser Gln Gly Phe Pro His Ser Glu Ile Thr Thr Leu Arg Ser
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 Arg Thr Pro Gly Asp Val Ser Trp Met Thr Thr Pro Pro Val Glu
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 Glu Thr Ser Ser Gly Phe Ser Leu Met Ser Pro Ser Met Thr Ser
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 Pro Ser Pro Val Ser Ser Thr Ser Pro Glu Ser Ile Pro Ser Ser
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 Pro Leu Pro Val Thr Ala Leu Leu Thr Ser Val Leu Val Thr Thr
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Pro Pro Asn Leu Ser Ser Pro Thr Gln Glu Arg Leu Thr Thr Tyr
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 5720 5725 5730
 Ser Gln Ser Ser Val Pro Ala Asp Ser His Thr Ser Lys Ala Thr
 5735 5740 5745
 Ser Pro Met Gly Ile Thr Phe Ala Met Gly Asp Thr Ser Val Tyr
 5750 5755 5760
 Thr Ser Thr Pro Ala Phe Phe Glu Thr Arg Ile Gln Ser Glu Ser
 5765 5770 5775
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 5780 5785 5790
 Glu Ile Asn Thr Val Thr Glu Thr Ser Thr Val Leu Ser Glu Val
 5795 5800 5805
 Pro Thr Thr Thr Thr Thr Glu Val Ser Arg Thr Glu Val Ile Thr
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 Ser Ser Arg Thr Thr Ile Ser Gly Pro Asp His Ser Lys Met Ser
 5825 5830 5835
 Pro Tyr Ile Ser Thr Glu Thr Ile Thr Arg Leu Ser Thr Phe Pro
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 Phe Val Thr Gly Ser Thr Glu Met Ala Ile Thr Asn Gln Thr Gly
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 Pro Ile Gly Thr Ile Ser Gln Ala Thr Leu Thr Leu Asp Thr Ser
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 Ser Thr Ala Ser Trp Glu Gly Thr His Ser Pro Val Thr Gln Arg
 5885 5890 5895
 Phe Pro His Ser Glu Glu Thr Thr Thr Met Ser Arg Ser Thr Lys
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 Gly Val Ser Trp Gln Ser Pro Pro Ser Val Glu Glu Thr Ser Ser

| | | | | | | | | | | |
|------|-----|-----|-----|-----|------|------|-----|-----|-----|------|
| 5915 | | | | | 5920 | | | | | 5925 |
| Pro | Ser | Ser | Pro | Val | Pro | Leu | Pro | Ala | Ile | Thr |
| 5930 | | | | | | 5935 | | | | Ser |
| | | | | | | | | | | 5940 |
| | | | | | | | | | | His |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Ser |
| Leu | Tyr | Ser | Ala | Val | Ser | Gly | Ser | Ser | Pro | Thr |
| 5945 | | | | | | 5950 | | | | Ser |
| | | | | | | | | | | 5955 |
| | | | | | | | | | | Ala |
| | | | | | | | | | | Leu |
| | | | | | | | | | | Pro |
| Val | Thr | Ser | Leu | Leu | Thr | Ser | Gly | Arg | Arg | Lys |
| 5960 | | | | | | 5965 | | | | Thr |
| | | | | | | | | | | 5970 |
| | | | | | | | | | | Ile |
| | | | | | | | | | | Asp |
| | | | | | | | | | | Met |
| Leu | Asp | Thr | His | Ser | Glu | Leu | Val | Thr | Ser | Ser |
| 5975 | | | | | | 5980 | | | | Leu |
| | | | | | | | | | | 5985 |
| | | | | | | | | | | Pro |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Ala |
| Ser | Ser | Phe | Ser | Gly | Glu | Ile | Leu | Thr | Ser | Glu |
| 5990 | | | | | | 5995 | | | | Ala |
| | | | | | | | | | | 6000 |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Thr |
| | | | | | | | | | | Asn |
| Thr | Glu | Thr | Ile | His | Phe | Ser | Glu | Asn | Thr | Ala |
| 6005 | | | | | | 6010 | | | | Glu |
| | | | | | | | | | | 6015 |
| | | | | | | | | | | Thr |
| | | | | | | | | | | Asn |
| | | | | | | | | | | Met |
| Gly | Thr | Thr | Asn | Ser | Met | His | Lys | Leu | His | Ser |
| 6020 | | | | | | 6025 | | | | Ser |
| | | | | | | | | | | 6030 |
| | | | | | | | | | | Val |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Ile |
| His | Ser | Gln | Pro | Ser | Gly | His | Thr | Pro | Pro | Lys |
| 6035 | | | | | | 6040 | | | | Val |
| | | | | | | | | | | 6045 |
| | | | | | | | | | | Thr |
| | | | | | | | | | | Gly |
| | | | | | | | | | | Ser |
| Met | Met | Glu | Asp | Ala | Ile | Val | Ser | Thr | Ser | Thr |
| 6050 | | | | | | 6055 | | | | Pro |
| | | | | | | | | | | 6060 |
| | | | | | | | | | | Gly |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Pro |
| Glu | Thr | Lys | Asn | Val | Asp | Arg | Asp | Ser | Thr | Ser |
| 6065 | | | | | | 6070 | | | | Pro |
| | | | | | | | | | | 6075 |
| | | | | | | | | | | Leu |
| | | | | | | | | | | Thr |
| | | | | | | | | | | Pro |
| Glu | Leu | Lys | Glu | Asp | Ser | Thr | Ala | Leu | Val | Met |
| 6080 | | | | | | 6085 | | | | Asn |
| | | | | | | | | | | 6090 |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Thr |
| | | | | | | | | | | Thr |
| Glu | Ser | Asn | Thr | Val | Phe | Ser | Ser | Val | Ser | Leu |
| 6095 | | | | | | 6100 | | | | Asp |
| | | | | | | | | | | 6105 |
| | | | | | | | | | | Ala |
| | | | | | | | | | | Ala |
| | | | | | | | | | | Thr |
| Glu | Val | Ser | Arg | Ala | Glu | Val | Thr | Tyr | Tyr | Asp |
| 6110 | | | | | | 6115 | | | | Pro |
| | | | | | | | | | | 6120 |
| | | | | | | | | | | Thr |
| | | | | | | | | | | Phe |
| | | | | | | | | | | Met |
| Pro | Ala | Ser | Ala | Gln | Ser | Thr | Lys | Ser | Pro | Asp |
| 6125 | | | | | | 6130 | | | | Ile |
| | | | | | | | | | | 6135 |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Pro |
| | | | | | | | | | | Glu |
| Ala | Ser | Ser | Ser | His | Ser | Asn | Ser | Pro | Pro | Leu |
| 6140 | | | | | | 6145 | | | | Thr |
| | | | | | | | | | | 6150 |
| | | | | | | | | | | Ile |
| | | | | | | | | | | Ser |
| | | | | | | | | | | Thr |

His Lys Thr Ile Ala Thr Gln Thr Gly Pro Ser Gly Val Thr Ser
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 Leu Gly Gln Leu Thr Leu Asp Thr Ser Thr Ile Ala Thr Ser Ala
 6170 6175 6180
 Gly Thr Pro Ser Ala Arg Thr Gln Asp Phe Val Asp Ser Glu Thr
 6185 6190 6195
 Thr Ser Val Met Asn Asn Asp Leu Asn Asp Val Leu Lys Thr Ser
 6200 6205 6210
 Pro Phe Ser Ala Glu Glu Ala Asn Ser Leu Ser Ser Gln Ala Pro
 6215 6220 6225
 Leu Leu Val Thr Thr Ser Pro Ser Pro Val Thr Ser Thr Leu Gln
 6230 6235 6240
 Glu His Ser Thr Ser Ser Leu Val Ser Val Thr Ser Val Pro Thr
 6245 6250 6255
 Pro Thr Leu Ala Lys Ile Thr Asp Met Asp Thr Asn Leu Glu Pro
 6260 6265 6270
 Val Thr Arg Ser Pro Gln Asn Leu Arg Asn Thr Leu Ala Thr Ser
 6275 6280 6285
 Glu Ala Thr Thr Asp Thr His Thr Met His Pro Ser Ile Asn Thr
 6290 6295 6300
 Ala Met Ala Asn Val Gly Thr Thr Ser Ser Pro Asn Glu Phe Tyr
 6305 6310 6315
 Phe Thr Val Ser Pro Asp Ser Asp Pro Tyr Lys Ala Thr Ser Ala
 6320 6325 6330
 Val Val Ile Thr Ser Thr Ser Gly Asp Ser Ile Val Ser Thr Ser
 6335 6340 6345
 Met Pro Arg Ser Ser Ala Met Lys Lys Ile Glu Ser Glu Thr Thr
 6350 6355 6360
 Phe Ser Leu Ile Phe Arg Leu Arg Glu Thr Ser Thr Ser Gln Lys
 6365 6370 6375
 Ile Gly Ser Ser Ser Asp Thr Ser Thr Val Phe Asp Lys Ala Phe
 6380 6385 6390

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Thr Ala Ala Thr Thr Glu Val Ser Arg Thr Glu Leu Thr Ser Ser
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 6425 6430 6435
 Leu Thr Lys Ser Glu Glu Arg Thr Ile Ala Thr Gln Thr Gly Pro
 6440 6445 6450
 His Arg Ala Thr Ser Gln Gly Thr Leu Thr Trp Asp Thr Ser Ile
 6455 6460 6465
 Thr Thr Ser Gln Ala Gly Thr His Ser Ala Met Thr His Gly Phe
 6470 6475 6480
 Ser Gln Leu Asp Leu Ser Thr Leu Thr Ser Arg Val Pro Glu Tyr
 6485 6490 6495
 Ile Ser Gly Thr Ser Pro Pro Ser Val Glu Lys Thr Ser Ser Ser
 6500 6505 6510
 Ser Ser Leu Leu Ser Leu Pro Ala Ile Thr Ser Pro Ser Pro Val
 6515 6520 6525
 Pro Thr Thr Leu Pro Glu Ser Arg Pro Ser Ser Pro Val His Leu
 6530 6535 6540
 Thr Ser Leu Pro Thr Ser Gly Leu Val Lys Thr Thr Asp Met Leu
 6545 6550 6555
 Ala Ser Val Ala Ser Leu Pro Pro Asn Leu Gly Ser Thr Ser His
 6560 6565 6570
 Lys Ile Pro Thr Thr Ser Glu Asp Ile Lys Asp Thr Glu Lys Met
 6575 6580 6585
 Tyr Pro Ser Thr Asn Ile Ala Val Thr Asn Val Gly Thr Thr Thr
 6590 6595 6600
 Ser Glu Lys Glu Ser Tyr Ser Ser Val Pro Ala Tyr Ser Glu Pro
 6605 6610 6615
 Pro Lys Val Thr Ser Pro Met Val Thr Ser Phe Asn Ile Arg Asp
 6620 6625 6630

Thr Ile Val Ser Thr Ser Met Pro Gly Ser Ser Glu Ile Thr Arg
 6635 6640 6645
 Ile Glu Met Glu Ser Thr Phe Ser Leu Ala His Gly Leu Lys Gly
 6650 6655 6660
 Thr Ser Thr Ser Gln Asp Pro Ile Val Ser Thr Glu Lys Ser Ala
 6665 6670 6675
 Val Leu His Lys Leu Thr Thr Gly Ala Thr Glu Thr Ser Arg Thr
 6680 6685 6690
 Glu Val Ala Ser Ser Arg Arg Thr Ser Ile Pro Gly Pro Asp His
 6695 6700 6705
 Ser Thr Glu Ser Pro Asp Ile Ser Thr Glu Val Ile Pro Ser Leu
 6710 6715 6720
 Pro Ile Ser Leu Gly Ile Thr Glu Ser Ser Asn Met Thr Ile Ile
 6725 6730 6735
 Thr Arg Thr Gly Pro Pro Leu Gly Ser Thr Ser Gln Gly Thr Phe
 6740 6745 6750
 Thr Leu Asp Thr Pro Thr Thr Ser Ser Arg Ala Gly Thr His Ser
 6755 6760 6765
 Met Ala Thr Gln Glu Phe Pro His Ser Glu Met Thr Thr Val Met
 6770 6775 6780
 Asn Lys Asp Pro Glu Ile Leu Ser Trp Thr Ile Pro Pro Ser Ile
 6785 6790 6795
 Glu Lys Thr Ser Phe Ser Ser Ser Leu Met Pro Ser Pro Ala Met
 6800 6805 6810
 Thr Ser Pro Pro Val Ser Ser Thr Leu Pro Lys Thr Ile His Thr
 6815 6820 6825
 Thr Pro Ser Pro Met Thr Ser Leu Leu Thr Pro Ser Leu Val Met
 6830 6835 6840
 Thr Thr Asp Thr Leu Gly Thr Ser Pro Glu Pro Thr Thr Ser Ser
 6845 6850 6855
 Pro Pro Asn Leu Ser Ser Thr Ser His Val Ile Leu Thr Thr Asp

| | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|
| 6860 | | | | | | 6865 | | | | | | 6870 |
| Glu | Asp | Thr | Thr | Ala | Ile | Glu | Ala | Met | His | Pro | Ser | Thr |
| 6875 | | | | | | 6880 | | | | | 6885 | |
| Ala | Ala | Thr | Asn | Val | Glu | Thr | Thr | Cys | Ser | Gly | His | Gly |
| 6890 | | | | | | 6895 | | | | | 6900 | |
| Ser | Ser | Val | Leu | Thr | Asp | Ser | Glu | Lys | Thr | Lys | Ala | Thr |
| 6905 | | | | | | 6910 | | | | | 6915 | |
| Met | Asp | Thr | Thr | Ser | Thr | Met | Gly | His | Thr | Thr | Val | Ser |
| 6920 | | | | | | 6925 | | | | | 6930 | |
| Met | Ser | Val | Ser | Ser | Glu | Thr | Thr | Lys | Ile | Lys | Arg | Glu |
| 6935 | | | | | | 6940 | | | | | 6945 | |
| Tyr | Ser | Leu | Thr | Pro | Gly | Leu | Arg | Glu | Thr | Ser | Ile | Ser |
| 6950 | | | | | | 6955 | | | | | 6960 | |
| Ala | Ser | Phe | Ser | Thr | Asp | Thr | Ser | Ile | Val | Leu | Ser | Glu |
| 6965 | | | | | | 6970 | | | | | 6975 | |
| Thr | Gly | Thr | Thr | Ala | Glu | Val | Ser | Arg | Thr | Glu | Val | Thr |
| 6980 | | | | | | 6985 | | | | | 6990 | |
| Gly | Arg | Thr | Ser | Ile | Pro | Gly | Pro | Ser | Gln | Ser | Thr | Val |
| 6995 | | | | | | 7000 | | | | | 7005 | |
| Glu | Ile | Ser | Thr | Arg | Thr | Met | Thr | Arg | Leu | Phe | Ala | Ser |
| 7010 | | | | | | 7015 | | | | | 7020 | |
| Met | Thr | Glu | Ser | Ala | Glu | Met | Thr | Ile | Pro | Thr | Gln | Thr |
| 7025 | | | | | | 7030 | | | | | 7035 | |
| Ser | Gly | Ser | Thr | Ser | Gln | Asp | Thr | Leu | Thr | Leu | Asp | Thr |
| 7040 | | | | | | 7045 | | | | | 7050 | |
| Thr | Lys | Ser | Gln | Ala | Lys | Thr | His | Ser | Thr | Leu | Thr | Gln |
| 7055 | | | | | | 7060 | | | | | 7065 | |
| Pro | His | Ser | Glu | Met | Thr | Thr | Leu | Met | Ser | Arg | Gly | Pro |
| 7070 | | | | | | 7075 | | | | | 7080 | |
| Met | Ser | Trp | Gln | Ser | Ser | Pro | Ser | Leu | Glu | Asn | Pro | Ser |
| 7085 | | | | | | 7090 | | | | | 7095 | |

Pro Ser Leu Leu Ser Leu Pro Ala Thr Thr Ser Pro Pro Pro Ile
 7100 7105 7110
 Ser Ser Thr Leu Pro Val Thr Ile Ser Ser Ser Pro Leu Pro Val
 7115 7120 7125
 Thr Ser Leu Leu Thr Ser Ser Pro Val Thr Thr Thr Asp Met Leu
 7130 7135 7140
 His Thr Ser Pro Glu Leu Val Thr Ser Ser Pro Pro Lys Leu Ser
 7145 7150 7155
 His Thr Ser Asp Glu Arg Leu Thr Thr Gly Lys Asp Thr Thr Asn
 7160 7165 7170
 Thr Glu Ala Val His Pro Ser Thr Asn Thr Ala Ala Ser Asn Val
 7175 7180 7185
 Glu Ile Pro Ser Phe Gly His Glu Ser Pro Ser Ser Ala Leu Ala
 7190 7195 7200
 Asp Ser Glu Thr Ser Lys Ala Thr Ser Pro Met Phe Ile Thr Ser
 7205 7210 7215
 Thr Gln Glu Asp Thr Thr Val Ala Ile Ser Thr Pro His Phe Leu
 7220 7225 7230
 Glu Thr Ser Arg Ile Gln Lys Glu Ser Ile Ser Ser Leu Ser Pro
 7235 7240 7245
 Lys Leu Arg Glu Thr Gly Ser Ser Val Glu Thr Ser Ser Ala Ile
 7250 7255 7260
 Glu Thr Ser Ala Val Leu Ser Glu Val Ser Ile Gly Ala Thr Thr
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 Glu Ile Ser Arg Thr Glu Val Thr Ser Ser Ser Arg Thr Ser Ile
 7280 7285 7290
 Ser Gly Ser Ala Glu Ser Thr Met Leu Pro Glu Ile Ser Thr Thr
 7295 7300 7305
 Arg Lys Ile Ile Lys Phe Pro Thr Ser Pro Ile Leu Ala Glu Ser
 7310 7315 7320
 Ser Glu Met Thr Ile Lys Thr Gln Thr Ser Pro Pro Gly Ser Thr
 7325 7330 7335

Ser Glu Ser Thr Phe Thr Leu Asp Thr Ser Thr Thr Pro Ser Leu
 7340 7345 7350
 Val Ile Thr His Ser Thr Met Thr Gln Arg Leu Pro His Ser Glu
 7355 7360 7365
 Ile Thr Thr Leu Val Ser Arg Gly Ala Gly Asp Val Pro Arg Pro
 7370 7375 7380
 Ser Ser Leu Pro Val Glu Glu Thr Ser Pro Pro Ser Ser Gln Leu
 7385 7390 7395
 Ser Leu Ser Ala Met Ile Ser Pro Ser Pro Val Ser Ser Thr Leu
 7400 7405 7410
 Pro Ala Ser Ser His Ser Ser Ser Ala Ser Val Thr Ser Pro Leu
 7415 7420 7425
 Thr Pro Gly Gln Val Lys Thr Thr Glu Val Leu Asp Ala Ser Ala
 7430 7435 7440
 Glu Pro Glu Thr Ser Ser Pro Pro Ser Leu Ser Ser Thr Ser Val
 7445 7450 7455
 Glu Ile Leu Ala Thr Ser Glu Val Thr Thr Asp Thr Glu Lys Ile
 7460 7465 7470
 His Pro Phe Pro Asn Thr Ala Val Thr Lys Val Gly Thr Ser Ser
 7475 7480 7485
 Ser Gly His Glu Ser Pro Ser Ser Val Leu Pro Asp Ser Glu Thr
 7490 7495 7500
 Thr Lys Ala Thr Ser Ala Met Gly Thr Ile Ser Ile Met Gly Asp
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 Thr Ser Val Ser Thr Leu Thr Pro Ala Leu Ser Asn Thr Arg Lys
 7520 7525 7530
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 7535 7540 7545
 Thr Ser Thr Ser Glu Glu Thr Ser Leu Ala Thr Glu Ala Asn Thr
 7550 7555 7560
 Val Leu Ser Lys Val Ser Thr Gly Ala Thr Thr Glu Val Ser Arg
 7565 7570 7575

Thr Glu Ala Ile Ser Phe Ser Arg Thr Ser Met Ser Gly Pro Glu
 7580 7585 7590
 Gln Ser Thr Met Ser Gln Asp Ile Ser Ile Gly Thr Ile Pro Arg
 7595 7600 7605
 Ile Ser Ala Ser Ser Val Leu Thr Glu Ser Ala Lys Met Thr Ile
 7610 7615 7620
 Thr Thr Gln Thr Gly Pro Ser Glu Ser Thr Leu Glu Ser Thr Leu
 7625 7630 7635
 Asn Leu Asn Thr Ala Thr Thr Pro Ser Trp Val Glu Thr His Ser
 7640 7645 7650
 Ile Val Ile Gln Gly Phe Pro His Pro Glu Met Thr Thr Ser Met
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 Gly Arg Gly Pro Gly Gly Val Ser Trp Pro Ser Pro Pro Phe Val
 7670 7675 7680
 Lys Glu Thr Ser Pro Pro Ser Ser Pro Leu Ser Leu Pro Ala Val
 7685 7690 7695
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 Thr Thr Thr Asp Ile Leu Gly Thr Ser Thr Glu Pro Gly Thr Ser
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 Tyr Lys Asp Thr Ala His Thr Glu Ala Val His Pro Ser Thr Asn
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 Gln Ser Ser Val Leu Ala Asp Ser Ser Pro Met Cys Thr Thr Ser
 7790 7795 7800
 Thr Met Gly Asp Thr Ser Val Leu Thr Ser Thr Pro Ala Phe Leu
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7805 7810 7815
 Glu Thr Arg Arg Ile Gln Thr Glu Leu Ala Ser Ser Leu Thr Pro
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 Gly Leu Arg Glu Ser Ser Gly Ser Glu Gly Thr Ser Ser Gly Thr
 7835 7840 7845
 Lys Met Ser Thr Val Leu Ser Lys Val Pro Thr Gly Ala Thr Thr
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 Glu Ile Ser Lys Glu Asp Val Thr Ser Ile Pro Gly Pro Ala Gln
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 Ser Thr Ile Ser Pro Asp Thr Ser Thr Arg Thr Val Ser Trp Phe
 7880 7885 7890
 Ser Thr Ser Pro Val Met Thr Glu Ser Ala Glu Ile Thr Met Asn
 7895 7900 7905
 Thr His Thr Ser Pro Leu Gly Ala Thr Thr Gln Gly Thr Ser Thr
 7910 7915 7920
 Leu Asp Thr Ser Ser Thr Thr Ser Leu Thr Met Thr His Ser Thr
 7925 7930 7935
 Ile Ser Gln Gly Phe Ser His Ser Gln Met Ser Thr Leu Met Arg
 7940 7945 7950
 Arg Gly Pro Glu Asp Val Ser Trp Met Ser Pro Pro Leu Leu Glu
 7955 7960 7965
 Lys Thr Arg Pro Ser Phe Ser Leu Met Ser Ser Pro Ala Thr Thr
 7970 7975 7980
 Ser Pro Ser Pro Val Ser Ser Thr Leu Pro Glu Ser Ile Ser Ser
 7985 7990 7995
 Ser Pro Leu Pro Val Thr Ser Leu Leu Thr Ser Gly Leu Ala Lys
 8000 8005 8010
 Thr Thr Asp Met Leu His Lys Ser Ser Glu Pro Val Thr Asn Ser
 8015 8020 8025
 Pro Ala Asn Leu Ser Ser Thr Ser Val Glu Ile Leu Ala Thr Ser
 8030 8035 8040

Glu Val Thr Thr Asp Thr Glu Lys Thr His Pro Ser Ser Asn Arg
 8045 8050 8055
 Thr Val Thr Asp Val Gly Thr Ser Ser Ser Gly His Glu Ser Thr
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 Ser Phe Val Leu Ala Asp Ser Gln Thr Ser Lys Val Thr Ser Pro
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 Met Val Ile Thr Ser Thr Met Glu Asp Thr Ser Val Ser Thr Ser
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 Thr Gly Ala Thr Ala Glu Val Ser Arg Thr Glu Val Thr Ser Ser
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 Ser Arg Thr Ser Ile Ser Gly Phe Ala Gln Leu Thr Val Ser Pro
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 Glu Thr Ser Thr Glu Thr Ile Thr Arg Leu Pro Thr Ser Ser Ile
 8180 8185 8190
 Met Thr Glu Ser Ala Glu Met Met Ile Lys Thr Gln Thr Asp Pro
 8195 8200 8205
 Pro Gly Ser Thr Pro Glu Ser Thr His Thr Val Asp Ile Ser Thr
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 Thr Pro Asn Trp Val Glu Thr His Ser Thr Val Thr Gln Arg Phe
 8225 8230 8235
 Ser His Ser Glu Met Thr Thr Leu Val Ser Arg Ser Pro Gly Asp
 8240 8245 8250
 Met Leu Trp Pro Ser Gln Ser Ser Val Glu Glu Thr Ser Ser Ala
 8255 8260 8265
 Ser Ser Leu Leu Ser Leu Pro Ala Thr Thr Ser Pro Ser Pro Val
 8270 8275 8280

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Ser Ser Thr Leu Val Glu Asp Phe Pro Ser Ala Ser Leu Pro Val
8285 8290 8295

Thr Ser Leu Leu Thr Pro Gly Leu Val Ile Thr Thr Asp Arg Met
8300 8305 8310

Gly Ile Ser Arg Glu Pro Gly Thr Ser Ser Thr Ser Asn Leu Ser
8315 8320 8325

Ser Thr Ser His Glu Arg Leu Thr Thr Leu Glu Asp Thr Val Asp
8330 8335 8340

Thr Glu Ala Met Gln Pro Ser Thr His Thr Ala Val Thr Asn Val
8345 8350 8355

Arg Thr Ser Ile Ser Gly His Glu Ser Gln Ser Ser Val Leu Ser
8360 8365 8370

Asp Ser Glu Thr Pro Lys Ala Thr Ser Ser Met Gly Thr Thr Tyr
8375 8380 8385

Thr Met Gly Glu Thr Ser Val Ser Ile Ser Thr Ser Asp Phe Phe
8390 8395 8400

Glu Thr Ser Arg Val Gln Ile Glu Pro Thr Ser Ser Leu Thr Ser
8405 8410 8415

Gly Leu Arg Glu Thr Ser Ser Ser Glu Arg Ile Ser Ser Ala Thr
8420 8425 8430

Glu Gly Ser Thr Val Leu Ser Glu Val Pro Ser Gly Ala Thr Thr
8435 8440 8445

Glu Val Ser Arg Thr Glu Val Ile Ser Ser Arg Gly Thr Ser Met
8450 8455 8460

Ser Gly Pro Asp Gln Phe Thr Ile Ser Pro Asp Ile Ser Thr Glu
8465 8470 8475

Ala Ile Thr Arg Leu Ser Thr Ser Pro Ile Met Thr Glu Ser Ala
8480 8485 8490

Glu Ser Ala Ile Thr Ile Glu Thr Gly Ser Pro Gly Ala Thr Ser
8495 8500 8505

Glu Gly Thr Leu Thr Leu Asp Thr Ser Thr Thr Thr Phe Trp Ser
8510 8515 8520

Gly Thr His Ser Thr Ala Ser Pro Gly Phe Ser His Ser Glu Met
 8525 8530 8535
 Thr Thr Leu Met Ser Arg Thr Pro Gly Asp Val Pro Trp Pro Ser
 8540 8545 8550
 Leu Pro Ser Val Glu Glu Ala Ser Ser Val Ser Ser Ser Leu Ser
 8555 8560 8565
 Ser Pro Ala Met Thr Ser Thr Ser Phe Phe Ser Ala Leu Pro Glu
 8570 8575 8580
 Ser Ile Ser Ser Ser Pro His Pro Val Thr Ala Leu Leu Thr Leu
 8585 8590 8595
 Gly Pro Val Lys Thr Thr Asp Met Leu Arg Thr Ser Ser Glu Pro
 8600 8605 8610
 Glu Thr Ser Ser Pro Pro Asn Leu Ser Ser Thr Ser Ala Glu Ile
 8615 8620 8625
 Leu Ala Thr Ser Glu Val Thr Lys Asp Arg Glu Lys Ile His Pro
 8630 8635 8640
 Ser Ser Asn Thr Pro Val Val Asn Val Gly Thr Val Ile Tyr Lys
 8645 8650 8655
 His Leu Ser Pro Ser Ser Val Leu Ala Asp Leu Val Thr Thr Lys
 8660 8665 8670
 Pro Thr Ser Pro Met Ala Thr Thr Ser Thr Leu Gly Asn Thr Ser
 8675 8680 8685
 Val Ser Thr Ser Thr Pro Ala Phe Pro Glu Thr Met Met Thr Gln
 8690 8695 8700
 Pro Thr Ser Ser Leu Thr Ser Gly Leu Arg Glu Ile Ser Thr Ser
 8705 8710 8715
 Gln Glu Thr Ser Ser Ala Thr Glu Arg Ser Ala Ser Leu Ser Gly
 8720 8725 8730
 Met Pro Thr Gly Ala Thr Thr Lys Val Ser Arg Thr Glu Ala Leu
 8735 8740 8745
 Ser Leu Gly Arg Thr Ser Thr Pro Gly Pro Ala Gln Ser Thr Ile
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8750 8755 8760
 Ser Pro Glu Ile Ser Thr Glu Thr Ile Thr Arg Ile Ser Thr Pro
 8765 8770 8775
 Leu Thr Thr Thr Gly Ser Ala Glu Met Thr Ile Thr Pro Lys Thr
 8780 8785 8790
 Gly His Ser Gly Ala Ser Ser Gln Gly Thr Phe Thr Leu Asp Thr
 8795 8800 8805
 Ser Ser Arg Ala Ser Trp Pro Gly Thr His Ser Ala Ala Thr His
 8810 8815 8820
 Arg Ser Pro His Ser Gly Met Thr Thr Pro Met Ser Arg Gly Pro
 8825 8830 8835
 Glu Asp Val Ser Trp Pro Ser Arg Pro Ser Val Glu Lys Thr Ser
 8840 8845 8850
 Pro Pro Ser Ser Leu Val Ser Leu Ser Ala Val Thr Ser Pro Ser
 8855 8860 8865
 Pro Leu Tyr Ser Thr Pro Ser Glu Ser Ser His Ser Ser Pro Leu
 8870 8875 8880
 Arg Val Thr Ser Leu Phe Thr Pro Val Met Met Lys Thr Thr Asp
 8885 8890 8895
 Met Leu Asp Thr Ser Leu Glu Pro Val Thr Thr Ser Pro Pro Ser
 8900 8905 8910
 Met Asn Ile Thr Ser Asp Glu Ser Leu Ala Thr Ser Lys Ala Thr
 8915 8920 8925
 Met Glu Thr Glu Ala Ile Gln Leu Ser Glu Asn Thr Ala Val Thr
 8930 8935 8940
 Gln Met Gly Thr Ile Ser Ala Arg Gln Glu Phe Tyr Ser Ser Tyr
 8945 8950 8955
 Pro Gly Leu Pro Glu Pro Ser Lys Val Thr Ser Pro Val Val Thr
 8960 8965 8970
 Ser Ser Thr Ile Lys Asp Ile Val Ser Thr Thr Ile Pro Ala Ser
 8975 8980 8985

Ser Glu Ile Thr Arg Ile Glu Met Glu Ser Thr Ser Thr Leu Thr
 8990 8995 9000
 Pro Thr Pro Arg Glu Thr Ser Thr Ser Gln Glu Ile His Ser Ala
 9005 9010 9015
 Thr Lys Pro Ser Thr Val Pro Tyr Lys Ala Leu Thr Ser Ala Thr
 9020 9025 9030
 Ile Glu Asp Ser Met Thr Gln Val Met Ser Ser Ser Arg Gly Pro
 9035 9040 9045
 Ser Pro Asp Gln Ser Thr Met Ser Gln Asp Ile Ser Thr Glu Val
 9050 9055 9060
 Ile Thr Arg Leu Ser Thr Ser Pro Ile Lys Ala Glu Ser Thr Glu
 9065 9070 9075
 Met Thr Ile Thr Thr Gln Thr Gly Ser Pro Gly Ala Thr Ser Arg
 9080 9085 9090
 Gly Thr Leu Thr Leu Asp Thr Ser Thr Thr Phe Met Ser Gly Thr
 9095 9100 9105
 His Ser Thr Ala Ser Gln Gly Phe Ser His Ser Gln Met Thr Ala
 9110 9115 9120
 Leu Met Ser Arg Thr Pro Gly Asp Val Pro Trp Leu Ser His Pro
 9125 9130 9135
 Ser Val Glu Glu Ala Ser Ser Ala Ser Phe Ser Leu Ser Ser Pro
 9140 9145 9150
 Val Met Thr Ser Ser Ser Pro Val Ser Ser Thr Leu Pro Asp Ser
 9155 9160 9165
 Ile His Ser Ser Ser Leu Pro Val Thr Ser Leu Leu Thr Ser Gly
 9170 9175 9180
 Leu Val Lys Thr Thr Glu Leu Leu Gly Thr Ser Ser Glu Pro Glu
 9185 9190 9195
 Thr Ser Ser Pro Pro Asn Leu Ser Ser Thr Ser Ala Glu Ile Leu
 9200 9205 9210
 Ala Thr Thr Glu Val Thr Thr Asp Thr Glu Lys Leu Glu Met Thr
 9215 9220 9225

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Asn Val Val Thr Ser Gly Tyr Thr His Glu Ser Pro Ser Ser Val
9230 9235 9240

Leu Ala Asp Ser Val Thr Thr Lys Ala Thr Ser Ser Met Gly Ile
9245 9250 9255

Thr Tyr Pro Thr Gly Asp Thr Asn Val Leu Thr Ser Thr Pro Ala
9260 9265 9270

Phe Ser Asp Thr Ser Arg Ile Gln Thr Lys Ser Lys Leu Ser Leu
9275 9280 9285

Thr Pro Gly Leu Met Glu Thr Ser Ile Ser Glu Glu Thr Ser Ser
9290 9295 9300

Ala Thr Glu Lys Ser Thr Val Leu Ser Ser Val Pro Thr Gly Ala
9305 9310 9315

Thr Thr Glu Val Ser Arg Thr Glu Ala Ile Ser Ser Ser Arg Thr
9320 9325 9330

Ser Ile Pro Gly Pro Ala Gln Ser Thr Met Ser Ser Asp Thr Ser
9335 9340 9345

Met Glu Thr Ile Thr Arg Ile Ser Thr Pro Leu Thr Arg Lys Glu
9350 9355 9360

Ser Thr Asp Met Ala Ile Thr Pro Lys Thr Gly Pro Ser Gly Ala
9365 9370 9375

Thr Ser Gln Gly Thr Phe Thr Leu Asp Ser Ser Ser Thr Ala Ser
9380 9385 9390

Trp Pro Gly Thr His Ser Ala Thr Thr Gln Arg Phe Pro Gln Ser
9395 9400 9405

Val Val Thr Thr Pro Met Ser Arg Gly Pro Glu Asp Val Ser Trp
9410 9415 9420

Pro Ser Pro Leu Ser Val Glu Lys Asn Ser Pro Pro Ser Ser Leu
9425 9430 9435

Val Ser Ser Ser Ser Val Thr Ser Pro Ser Pro Leu Tyr Ser Thr
9440 9445 9450

Pro Ser Gly Ser Ser His Ser Ser Pro Val Pro Val Thr Ser Leu
9455 9460 9465

Phe Thr Ser Ile Met Met Lys Ala Thr Asp Met Leu Asp Ala Ser
 9470 9475 9480
 Leu Glu Pro Glu Thr Thr Ser Ala Pro Asn Met Asn Ile Thr Ser
 9485 9490 9495
 Asp Glu Ser Leu Ala Thr Ser Lys Ala Thr Thr Glu Thr Glu Ala
 9500 9505 9510
 Ile His Val Phe Glu Asn Thr Ala Ala Ser His Val Glu Thr Thr
 9515 9520 9525
 Ser Ala Thr Glu Glu Leu Tyr Ser Ser Ser Pro Gly Phe Ser Glu
 9530 9535 9540
 Pro Thr Lys Val Ile Ser Pro Val Val Thr Ser Ser Ser Ile Arg
 9545 9550 9555
 Asp Asn Met Val Ser Thr Thr Met Pro Gly Ser Ser Gly Ile Thr
 9560 9565 9570
 Arg Ile Glu Ile Glu Ser Met Ser Ser Leu Thr Pro Gly Leu Arg
 9575 9580 9585
 Glu Thr Arg Thr Ser Gln Asp Ile Thr Ser Ser Thr Glu Thr Ser
 9590 9595 9600
 Thr Val Leu Tyr Lys Met Ser Ser Gly Ala Thr Pro Glu Val Ser
 9605 9610 9615
 Arg Thr Glu Val Met Pro Ser Ser Arg Thr Ser Ile Pro Gly Pro
 9620 9625 9630
 Ala Gln Ser Thr Met Ser Leu Asp Ile Ser Asp Glu Val Val Thr
 9635 9640 9645
 Arg Leu Ser Thr Ser Pro Ile Met Thr Glu Ser Ala Glu Ile Thr
 9650 9655 9660
 Ile Thr Thr Gln Thr Gly Tyr Ser Leu Ala Thr Ser Gln Val Thr
 9665 9670 9675
 Leu Pro Leu Gly Thr Ser Met Thr Phe Leu Ser Gly Thr His Ser
 9680 9685 9690
 Thr Met Ser Gln Gly Leu Ser His Ser Glu Met Thr Asn Leu Met

9695

9700

9705

Ser Arg Gly Pro Glu Ser Leu Ser Trp Thr Ser Pro Arg Phe Val
9710 9715 9720

Glu Thr Thr Arg Ser Ser Ser Ser Leu Thr Ser Leu Pro Leu Thr
9725 9730 9735

Thr Ser Leu Ser Pro Val Ser Ser Thr Leu Leu Asp Ser Ser Pro
9740 9745 9750

Ser Ser Pro Leu Pro Val Thr Ser Leu Ile Leu Pro Gly Leu Val
9755 9760 9765

Lys Thr Thr Glu Val Leu Asp Thr Ser Ser Glu Pro Lys Thr Ser
9770 9775 9780

Ser Ser Pro Asn Leu Ser Ser Thr Ser Val Glu Ile Pro Ala Thr
9785 9790 9795

Ser Glu Ile Met Thr Asp Thr Glu Lys Ile His Pro Ser Ser Asn
9800 9805 9810

Thr Ala Val Ala Lys Val Arg Thr Ser Ser Ser Val His Glu Ser
9815 9820 9825

His Ser Ser Val Leu Ala Asp Ser Glu Thr Thr Ile Thr Ile Pro
9830 9835 9840

Ser Met Gly Ile Thr Ser Ala Val Asp Asp Thr Thr Val Phe Thr
9845 9850 9855

Ser Asn Pro Ala Phe Ser Glu Thr Arg Arg Ile Pro Thr Glu Pro
9860 9865 9870

Thr Phe Ser Leu Thr Pro Gly Phe Arg Glu Thr Ser Thr Ser Glu
9875 9880 9885

Glu Thr Thr Ser Ile Thr Glu Thr Ser Ala Val Leu Tyr Gly Val
9890 9895 9900

Pro Thr Ser Ala Thr Thr Glu Val Ser Met Thr Glu Ile Met Ser
9905 9910 9915

Ser Asn Arg Thr His Ile Pro Asp Ser Asp Gln Ser Thr Met Ser
9920 9925 9930

Pro Asp Ile Ile Thr Glu Val Ile Thr Arg Leu Ser Ser Ser Ser
 9935 9940 9945

 Met Met Ser Glu Ser Thr Gln Met Thr Ile Thr Thr Gln Lys Ser
 9950 9955 9960

 Ser Pro Gly Ala Thr Ala Gln Ser Thr Leu Thr Leu Ala Thr Thr
 9965 9970 9975

 Thr Ala Pro Leu Ala Arg Thr His Ser Thr Val Pro Pro Arg Phe
 9980 9985 9990

 Leu His Ser Glu Met Thr Thr Leu Met Ser Arg Ser Pro Glu Asn
 9995 10000 10005

 Pro Ser Trp Lys Ser Ser Pro Phe Val Glu Lys Thr Ser Ser Ser
 10010 10015 10020

 Ser Ser Leu Leu Ser Leu Pro Val Thr Thr Ser Pro Ser Val Ser
 10025 10030 10035

 Ser Thr Leu Pro Gln Ser Ile Pro Ser Ser Ser Phe Ser Val Thr
 10040 10045 10050

 Ser Leu Leu Thr Pro Gly Met Val Lys Thr Thr Asp Thr Ser Thr
 10055 10060 10065

 Glu Pro Gly Thr Ser Leu Ser Pro Asn Leu Ser Gly Thr Ser Val
 10070 10075 10080

 Glu Ile Leu Ala Ala Ser Glu Val Thr Thr Asp Thr Glu Lys Ile
 10085 10090 10095

 His Pro Ser Ser Ser Met Ala Val Thr Asn Val Gly Thr Thr Ser
 10100 10105 10110

 Ser Gly His Glu Leu Tyr Ser Ser Val Ser Ile His Ser Glu Pro
 10115 10120 10125

 Ser Lys Ala Thr Tyr Pro Val Gly Thr Pro Ser Ser Met Ala Glu
 10130 10135 10140

 Thr Ser Ile Ser Thr Ser Met Pro Ala Asn Phe Glu Thr Thr Gly
 10145 10150 10155

 Phe Glu Ala Glu Pro Phe Ser His Leu Thr Ser Gly Phe Arg Lys
 10160 10165 10170

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Thr | Asn | Met | Ser | Leu | Asp | Thr | Ser | Ser | Val | Thr | Pro | Thr | Asn | Thr |
| | 10175 | | | | | 10180 | | | | | 10185 | | | |
| Pro | Ser | Ser | Pro | Gly | Ser | Thr | His | Leu | Leu | Gln | Ser | Ser | Lys | Thr |
| | 10190 | | | | | 10195 | | | | | 10200 | | | |
| Asp | Phe | Thr | Ser | Ser | Ala | Lys | Thr | Ser | Ser | Pro | Asp | Trp | Pro | Pro |
| | 10205 | | | | | 10210 | | | | | 10215 | | | |
| Ala | Ser | Gln | Tyr | Thr | Glu | Ile | Pro | Val | Asp | Ile | Ile | Thr | Pro | Phe |
| | 10220 | | | | | 10225 | | | | | 10230 | | | |
| Asn | Ala | Ser | Pro | Ser | Ile | Thr | Glu | Ser | Thr | Gly | Ile | Thr | Ser | Phe |
| | 10235 | | | | | 10240 | | | | | 10245 | | | |
| Pro | Glu | Ser | Arg | Phe | Thr | Met | Ser | Val | Thr | Glu | Ser | Thr | His | His |
| | 10250 | | | | | 10255 | | | | | 10260 | | | |
| Leu | Ser | Thr | Asp | Leu | Leu | Pro | Ser | Ala | Glu | Thr | Ile | Ser | Thr | Gly |
| | 10265 | | | | | 10270 | | | | | 10275 | | | |
| Thr | Val | Met | Pro | Ser | Leu | Ser | Glu | Ala | Met | Thr | Ser | Phe | Ala | Thr |
| | 10280 | | | | | 10285 | | | | | 10290 | | | |
| Thr | Gly | Val | Pro | Arg | Ala | Ile | Ser | Gly | Ser | Gly | Ser | Pro | Phe | Ser |
| | 10295 | | | | | 10300 | | | | | 10305 | | | |
| Arg | Thr | Glu | Ser | Gly | Pro | Gly | Asp | Ala | Thr | Leu | Ser | Thr | Ile | Ala |
| | 10310 | | | | | 10315 | | | | | 10320 | | | |
| Glu | Ser | Leu | Pro | Ser | Ser | Thr | Pro | Val | Pro | Phe | Ser | Ser | Ser | Thr |
| | 10325 | | | | | 10330 | | | | | 10335 | | | |
| Phe | Thr | Thr | Thr | Asp | Ser | Ser | Thr | Ile | Pro | Ala | Leu | His | Glu | Ile |
| | 10340 | | | | | 10345 | | | | | 10350 | | | |
| Thr | Ser | Ser | Ser | Ala | Thr | Pro | Tyr | Arg | Val | Asp | Thr | Ser | Leu | Gly |
| | 10355 | | | | | 10360 | | | | | 10365 | | | |
| Thr | Glu | Ser | Ser | Thr | Thr | Glu | Gly | Arg | Leu | Val | Met | Val | Ser | Thr |
| | 10370 | | | | | 10375 | | | | | 10380 | | | |
| Leu | Asp | Thr | Ser | Ser | Gln | Pro | Gly | Arg | Thr | Ser | Ser | Thr | Pro | Ile |
| | 10385 | | | | | 10390 | | | | | 10395 | | | |
| Leu | Asp | Thr | Arg | Met | Thr | Glu | Ser | Val | Glu | Leu | Gly | Thr | Val | Thr |
| | 10400 | | | | | 10405 | | | | | 10410 | | | |

Ser Ala Tyr Gln Val Pro Ser Leu Ser Thr Arg Leu Thr Arg Thr
 10415 10420 10425
 Asp Gly Ile Met Glu His Ile Thr Lys Ile Pro Asn Glu Ala Ala
 10430 10435 10440
 His Arg Gly Thr Ile Arg Pro Val Lys Gly Pro Gln Thr Ser Thr
 10445 10450 10455
 Ser Pro Ala Ser Pro Lys Gly Leu His Thr Gly Gly Thr Lys Arg
 10460 10465 10470
 Met Glu Thr Thr Thr Thr Ala Leu Lys Thr Thr Thr Thr Ala Leu
 10475 10480 10485
 Lys Thr Thr Ser Arg Ala Thr Leu Thr Thr Ser Val Tyr Thr Pro
 10490 10495 10500
 Thr Leu Gly Thr Leu Thr Pro Leu Asn Ala Ser Arg Gln Met Ala
 10505 10510 10515
 Ser Thr Ile Leu Thr Glu Met Met Ile Thr Thr Pro Tyr Val Phe
 10520 10525 10530
 Pro Asp Val Pro Glu Thr Thr Ser Ser Leu Ala Thr Ser Leu Gly
 10535 10540 10545
 Ala Glu Thr Ser Thr Ala Leu Pro Arg Thr Thr Pro Ser Val Leu
 10550 10555 10560
 Asn Arg Glu Ser Glu Thr Thr Ala Ser Leu Val Ser Arg Ser Gly
 10565 10570 10575
 Ala Glu Arg Ser Pro Val Ile Gln Thr Leu Asp Val Ser Ser Ser
 10580 10585 10590
 Glu Pro Asp Thr Thr Ala Ser Trp Val Ile His Pro Ala Glu Thr
 10595 10600 10605
 Ile Pro Thr Val Ser Lys Thr Thr Pro Asn Phe Phe His Ser Glu
 10610 10615 10620
 Leu Asp Thr Val Ser Ser Thr Ala Thr Ser His Gly Ala Asp Val
 10625 10630 10635
 Ser Ser Ala Ile Pro Thr Asn Ile Ser Pro Ser Glu Leu Asp Ala

10640

| | | | | |
|------------------|-----------------|--------------|------------------------------|-------------|
| Leu Thr 10655 | Pro Leu Val Thr | Ile 10660 | Ser Gly Thr Asp Thr 10665 | Ser Thr Thr |
| Phe Pro 10670 | Thr Leu Thr Lys | Ser 10675 | Pro His Glu Thr Glu 10680 | Thr Arg Thr |
| Thr Trp 10685 | Leu Thr His Pro | Ala 10690 | Glu Thr Ser Ser Thr 10695 | Ile Pro Arg |
| Thr Ile 10700 | Pro Asn Phe Ser | His 10705 | His Glu Ser Asp Ala 10710 | Thr Pro Ser |
| Ile Ala 10715 | Thr Ser Pro Gly | Ala 10720 | Glu Thr Ser Ser Ala 10725 | Ile Pro Ile |
| Met Thr 10730 | Val Ser Pro Gly | Ala 10735 | Glu Asp Leu Val Thr 10740 | Ser Gln Val |
| Thr Ser 10745 | Ser Gly Thr Asp | Arg 10750 | Asn Met Thr Ile Pro 10755 | Thr Leu Thr |
| Leu Ser 10760 | Pro Gly Glu Pro | Lys 10765 | Thr Ile Ala Ser Leu 10770 | Val Thr His |
| Pro Glu 10775 | Ala Gln Thr Ser | Ser 10780 | Ala Ile Pro Thr Ser 10785 | Thr Ile Ser |
| Pro Ala 10790 | Val Ser Arg Leu | Val 10795 | Thr Ser Met Val Thr 10800 | Ser Leu Ala |
| Ala Lys 10805 | Thr Ser Thr Thr | Asn 10810 | Arg Ala Leu Thr Asn 10815 | Ser Pro Gly |
| Glu Pro 10820 | Ala Thr Thr Val | Ser 10825 | Leu Val Thr His Pro 10830 | Ala Gln Thr |
| Ser Pro 10835 | Thr Val Pro Trp | Thr 10840 | Thr Ser Ile Phe Phe 10845 | His Ser Lys |
| Ser Asp 10850 | Thr Thr Pro Ser | Met 10855 | Thr Thr Ser His Gly 10860 | Ala Glu Ser |
| Ser Ser 10865 | Ala Val Pro Thr | Pro 10870 | Thr Val Ser Thr Glu 10875 | Val Pro Gly |

Val Val Thr Pro Leu Val Thr Ser Ser Arg Ala Val Ile Ser Thr
 10880 10885 10890
 Thr Ile Pro Ile Leu Thr Leu Ser Pro Gly Glu Pro Glu Thr Thr
 10895 10900 10905
 Pro Ser Met Ala Thr Ser His Gly Glu Glu Ala Ser Ser Ala Ile
 10910 10915 10920
 Pro Thr Pro Thr Val Ser Pro Gly Val Pro Gly Val Val Thr Ser
 10925 10930 10935
 Leu Val Thr Ser Ser Arg Ala Val Thr Ser Thr Thr Ile Pro Ile
 10940 10945 10950
 Leu Thr Phe Ser Leu Gly Glu Pro Glu Thr Thr Pro Ser Met Ala
 10955 10960 10965
 Thr Ser His Gly Thr Glu Ala Gly Ser Ala Val Pro Thr Val Leu
 10970 10975 10980
 Pro Glu Val Pro Gly Met Val Thr Ser Leu Val Ala Ser Ser Arg
 10985 10990 10995
 Ala Val Thr Ser Thr Thr Leu Pro Thr Leu Thr Leu Ser Pro Gly
 11000 11005 11010
 Glu Pro Glu Thr Thr Pro Ser Met Ala Thr Ser His Gly Ala Glu
 11015 11020 11025
 Ala Ser Ser Thr Val Pro Thr Val Ser Pro Glu Val Pro Gly Val
 11030 11035 11040
 Val Thr Ser Leu Val Thr Ser Ser Ser Gly Val Asn Ser Thr Ser
 11045 11050 11055
 Ile Pro Thr Leu Ile Leu Ser Pro Gly Glu Leu Glu Thr Thr Pro
 11060 11065 11070
 Ser Met Ala Thr Ser His Gly Ala Glu Ala Ser Ser Ala Val Pro
 11075 11080 11085
 Thr Pro Thr Val Ser Pro Gly Val Ser Gly Val Val Thr Pro Leu
 11090 11095 11100
 Val Thr Ser Ser Arg Ala Val Thr Ser Thr Thr Ile Pro Ile Leu
 11105 11110 11115

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Thr | Leu | Ser | Ser | Ser | Glu | Pro | Glu | Thr | Thr | Pro | Ser | Met | Ala | Thr |
| | 11120 | | | | | 11125 | | | | | 11130 | | | |
| Ser | His | Gly | Val | Glu | Ala | Ser | Ser | Ala | Val | Leu | Thr | Val | Ser | Pro |
| | 11135 | | | | | 11140 | | | | | 11145 | | | |
| Glu | Val | Pro | Gly | Met | Val | Thr | Ser | Leu | Val | Thr | Ser | Ser | Arg | Ala |
| | 11150 | | | | | 11155 | | | | | 11160 | | | |
| Val | Thr | Ser | Thr | Thr | Ile | Pro | Thr | Leu | Thr | Ile | Ser | Ser | Asp | Glu |
| | 11165 | | | | | 11170 | | | | | 11175 | | | |
| Pro | Glu | Thr | Thr | Thr | Ser | Leu | Val | Thr | His | Ser | Glu | Ala | Lys | Met |
| | 11180 | | | | | 11185 | | | | | 11190 | | | |
| Ile | Ser | Ala | Ile | Pro | Thr | Leu | Ala | Val | Ser | Pro | Thr | Val | Gln | Gly |
| | 11195 | | | | | 11200 | | | | | 11205 | | | |
| Leu | Val | Thr | Ser | Leu | Val | Thr | Ser | Ser | Gly | Ser | Glu | Thr | Ser | Ala |
| | 11210 | | | | | 11215 | | | | | 11220 | | | |
| Phe | Ser | Asn | Leu | Thr | Val | Ala | Ser | Ser | Gln | Pro | Glu | Thr | Ile | Asp |
| | 11225 | | | | | 11230 | | | | | 11235 | | | |
| Ser | Trp | Val | Ala | His | Pro | Gly | Thr | Glu | Ala | Ser | Ser | Val | Val | Pro |
| | 11240 | | | | | 11245 | | | | | 11250 | | | |
| Thr | Leu | Thr | Val | Ser | Thr | Gly | Glu | Pro | Phe | Thr | Asn | Ile | Ser | Leu |
| | 11255 | | | | | 11260 | | | | | 11265 | | | |
| Val | Thr | His | Pro | Ala | Glu | Ser | Ser | Ser | Thr | Leu | Pro | Arg | Thr | Thr |
| | 11270 | | | | | 11275 | | | | | 11280 | | | |
| Ser | Arg | Phe | Ser | His | Ser | Glu | Leu | Asp | Thr | Met | Pro | Ser | Thr | Val |
| | 11285 | | | | | 11290 | | | | | 11295 | | | |
| Thr | Ser | Pro | Glu | Ala | Glu | Ser | Ser | Ser | Ala | Ile | Ser | Thr | Thr | Ile |
| | 11300 | | | | | 11305 | | | | | 11310 | | | |
| Ser | Pro | Gly | Ile | Pro | Gly | Val | Leu | Thr | Ser | Leu | Val | Thr | Ser | Ser |
| | 11315 | | | | | 11320 | | | | | 11325 | | | |
| Gly | Arg | Asp | Ile | Ser | Ala | Thr | Phe | Pro | Thr | Val | Pro | Glu | Ser | Pro |
| | 11330 | | | | | 11335 | | | | | 11340 | | | |
| His | Glu | Ser | Glu | Ala | Thr | Ala | Ser | Trp | Val | Thr | His | Pro | Ala | Val |
| | 11345 | | | | | 11350 | | | | | 11355 | | | |

| | | | |
|------------------|------------------------------|------------------------------|-------------|
| Thr Ser 11360 | Thr Thr Val Pro Arg 11365 | Thr Thr Pro Asn Tyr 11370 | Ser His Ser |
| Glu Pro 11375 | Asp Thr Thr Pro Ser 11380 | Ile Ala Thr Ser Pro 11385 | Gly Ala Glu |
| Ala Thr 11390 | Ser Asp Phe Pro Thr 11395 | Ile Thr Val Ser Pro 11400 | Asp Val Pro |
| Asp Met 11405 | Val Thr Ser Gln Val 11410 | Thr Ser Ser Gly Thr 11415 | Asp Thr Ser |
| Ile Thr 11420 | Ile Pro Thr Leu Thr 11425 | Leu Ser Ser Gly Glu 11430 | Pro Glu Thr |
| Thr Thr 11435 | Ser Phe Ile Thr Tyr 11440 | Ser Glu Thr His Thr 11445 | Ser Ser Ala |
| Ile Pro 11450 | Thr Leu Pro Val Ser 11455 | Pro Gly Ala Ser Lys 11460 | Met Leu Thr |
| Ser Leu 11465 | Val Ile Ser Ser Gly 11470 | Thr Asp Ser Thr Thr 11475 | Thr Phe Pro |
| Thr Leu 11480 | Thr Glu Thr Pro Tyr 11485 | Glu Pro Glu Thr Thr 11490 | Ala Ile Gln |
| Leu Ile 11495 | His Pro Ala Glu Thr 11500 | Asn Thr Met Val Pro 11505 | Arg Thr Thr |
| Pro Lys 11510 | Phe Ser His Ser Lys 11515 | Ser Asp Thr Thr Leu 11520 | Pro Val Ala |
| Ile Thr 11525 | Ser Pro Gly Pro Glu 11530 | Ala Ser Ser Ala Val 11535 | Ser Thr Thr |
| Thr Ile 11540 | Ser Pro Asp Met Ser 11545 | Asp Leu Val Thr Ser 11550 | Leu Val Pro |
| Ser Ser 11555 | Gly Thr Asp Thr Ser 11560 | Thr Thr Phe Pro Thr 11565 | Leu Ser Glu |
| Thr Pro 11570 | Tyr Glu Pro Glu Thr 11575 | Thr Ala Thr Trp Leu 11580 | Thr His Pro |
| Ala Glu | Thr Ser Thr Thr Val | Ser Gly Thr Ile Pro | Asn Phe Ser |

11585

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| His | Arg | Gly | Ser | Asp | Thr | Ala | Pro | Ser | Met | Val | Thr | Ser | Pro | Gly |
| | 11600 | | | | | 11605 | | | | | 11610 | | | |
| Val | Asp | Thr | Arg | Ser | Gly | Val | Pro | Thr | Thr | Thr | Ile | Pro | Pro | Ser |
| | 11615 | | | | | 11620 | | | | | 11625 | | | |
| Ile | Pro | Gly | Val | Val | Thr | Ser | Gln | Val | Thr | Ser | Ser | Ala | Thr | Asp |
| | 11630 | | | | | 11635 | | | | | 11640 | | | |
| Thr | Ser | Thr | Ala | Ile | Pro | Thr | Leu | Thr | Pro | Ser | Pro | Gly | Glu | Pro |
| | 11645 | | | | | 11650 | | | | | 11655 | | | |
| Glu | Thr | Thr | Ala | Ser | Ser | Ala | Thr | His | Pro | Gly | Thr | Gln | Thr | Gly |
| | 11660 | | | | | 11665 | | | | | 11670 | | | |
| Phe | Thr | Val | Pro | Ile | Arg | Thr | Val | Pro | Ser | Ser | Glu | Pro | Asp | Thr |
| | 11675 | | | | | 11680 | | | | | 11685 | | | |
| Met | Ala | Ser | Trp | Val | Thr | His | Pro | Pro | Gln | Thr | Ser | Thr | Pro | Val |
| | 11690 | | | | | 11695 | | | | | 11700 | | | |
| Ser | Arg | Thr | Thr | Ser | Ser | Phe | Ser | His | Ser | Ser | Pro | Asp | Ala | Thr |
| | 11705 | | | | | 11710 | | | | | 11715 | | | |
| Pro | Val | Met | Ala | Thr | Ser | Pro | Arg | Thr | Glu | Ala | Ser | Ser | Ala | Val |
| | 11720 | | | | | 11725 | | | | | 11730 | | | |
| Leu | Thr | Thr | Ile | Ser | Pro | Gly | Ala | Pro | Glu | Met | Val | Thr | Ser | Gln |
| | 11735 | | | | | 11740 | | | | | 11745 | | | |
| Ile | Thr | Ser | Ser | Gly | Ala | Ala | Thr | Ser | Thr | Thr | Val | Pro | Thr | Leu |
| | 11750 | | | | | 11755 | | | | | 11760 | | | |
| Thr | His | Ser | Pro | Gly | Met | Pro | Glu | Thr | Thr | Ala | Leu | Leu | Ser | Thr |
| | 11765 | | | | | 11770 | | | | | 11775 | | | |
| His | Pro | Arg | Thr | Glu | Thr | Ser | Lys | Thr | Phe | Pro | Ala | Ser | Thr | Val |
| | 11780 | | | | | 11785 | | | | | 11790 | | | |
| Phe | Pro | Gln | Val | Ser | Glu | Thr | Thr | Ala | Ser | Leu | Thr | Ile | Arg | Pro |
| | 11795 | | | | | 11800 | | | | | 11805 | | | |
| Gly | Ala | Glu | Thr | Ser | Thr | Ala | Leu | Pro | Thr | Gln | Thr | Thr | Ser | Ser |
| | 11810 | | | | | 11815 | | | | | 11820 | | | |

Leu Phe Thr Leu Leu Val Thr Gly Thr Ser Arg Val Asp Leu Ser
 11825 11830 11835
 Pro Thr Ala Ser Pro Gly Val Ser Ala Lys Thr Ala Pro Leu Ser
 11840 11845 11850
 Thr His Pro Gly Thr Glu Thr Ser Thr Met Ile Pro Thr Ser Thr
 11855 11860 11865
 Leu Ser Leu Gly Leu Leu Glu Thr Thr Gly Leu Leu Ala Thr Ser
 11870 11875 11880
 Ser Ser Ala Glu Thr Ser Thr Ser Thr Leu Thr Leu Thr Val Ser
 11885 11890 11895
 Pro Ala Val Ser Gly Leu Ser Ser Ala Ser Ile Thr Thr Asp Lys
 11900 11905 11910
 Pro Gln Thr Val Thr Ser Trp Asn Thr Glu Thr Ser Pro Ser Val
 11915 11920 11925
 Thr Ser Val Gly Pro Pro Glu Phe Ser Arg Thr Val Thr Gly Thr
 11930 11935 11940
 Thr Met Thr Leu Ile Pro Ser Glu Met Pro Thr Pro Pro Lys Thr
 11945 11950 11955
 Ser His Gly Glu Gly Val Ser Pro Thr Thr Ile Leu Arg Thr Thr
 11960 11965 11970
 Met Val Glu Ala Thr Asn Leu Ala Thr Thr Gly Ser Ser Pro Thr
 11975 11980 11985
 Val Ala Lys Thr Thr Thr Thr Phe Asn Thr Leu Ala Gly Ser Leu
 11990 11995 12000
 Phe Thr Pro Leu Thr Thr Pro Gly Met Ser Thr Leu Ala Ser Glu
 12005 12010 12015
 Ser Val Thr Ser Arg Thr Ser Tyr Asn His Arg Ser Trp Ile Ser
 12020 12025 12030
 Thr Thr Ser Ser Tyr Asn Arg Arg Tyr Trp Thr Pro Ala Thr Ser
 12035 12040 12045
 Thr Pro Val Thr Ser Thr Phe Ser Pro Gly Ile Ser Thr Ser Ser
 12050 12055 12060

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Ile | Pro | Ser | Ser | Thr | Ala | Ala | Thr | Val | Pro | Phe | Met | Val | Pro | Phe |
| | 12065 | | | | | 12070 | | | | | 12075 | | | |
| Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met |
| | 12080 | | | | | 12085 | | | | | 12090 | | | |
| Arg | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Ala | Thr | Glu | Arg | Glu | Leu |
| | 12095 | | | | | 12100 | | | | | 12105 | | | |
| Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Arg | Asn | Ser | Ser | Leu | Glu | Tyr |
| | 12110 | | | | | 12115 | | | | | 12120 | | | |
| Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Ala | Ser | Leu | Arg | Pro | Glu | Lys | Asp |
| | 12125 | | | | | 12130 | | | | | 12135 | | | |
| Ser | Ser | Ala | Met | Ala | Val | Asp | Ala | Ile | Cys | Thr | His | Arg | Pro | Asp |
| | 12140 | | | | | 12145 | | | | | 12150 | | | |
| Pro | Glu | Asp | Leu | Gly | Leu | Asp | Arg | Glu | Arg | Leu | Tyr | Trp | Glu | Leu |
| | 12155 | | | | | 12160 | | | | | 12165 | | | |
| Ser | Asn | Leu | Thr | Asn | Gly | Ile | Gln | Glu | Leu | Gly | Pro | Tyr | Thr | Leu |
| | 12170 | | | | | 12175 | | | | | 12180 | | | |
| Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Ser |
| | 12185 | | | | | 12190 | | | | | 12195 | | | |
| Met | Pro | Thr | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | Asp | Val | Gly |
| | 12200 | | | | | 12205 | | | | | 12210 | | | |
| Thr | Ser | Gly | Thr | Pro | Ser | Ser | Ser | Pro | Ser | Pro | Thr | Ala | Ala | Gly |
| | 12215 | | | | | 12220 | | | | | 12225 | | | |
| Pro | Leu | Leu | Met | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu |
| | 12230 | | | | | 12235 | | | | | 12240 | | | |
| Gln | Tyr | Glu | Glu | Asp | Met | Arg | Arg | Thr | Gly | Ser | Arg | Lys | Phe | Asn |
| | 12245 | | | | | 12250 | | | | | 12255 | | | |
| Thr | Met | Glu | Ser | Val | Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys |
| | 12260 | | | | | 12265 | | | | | 12270 | | | |
| Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu |
| | 12275 | | | | | 12280 | | | | | 12285 | | | |
| Leu | Arg | Pro | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile |
| | 12290 | | | | | 12295 | | | | | 12300 | | | |

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| | | | | | |
|------------------|---------------------|---------------------|-----------------|--------------|-------------|
| Cys Thr 12305 | His Arg Leu Asp | Pro 12310 | Lys Ser Pro Gly | Leu 12315 | Asn Arg Glu |
| Gln Leu 12320 | Tyr Trp Glu Leu | Ser 12325 | Lys Leu Thr Asn | Asp 12330 | Ile Glu Glu |
| Leu Gly 12335 | Pro Tyr Thr Leu | Asp 12340 | Arg Asn Ser Leu | Tyr 12345 | Val Asn Gly |
| Phe Thr 12350 | His Gln Ser Ser | Val 12355 | Ser Thr Thr Ser | Thr 12360 | Pro Gly Thr |
| Ser Thr 12365 | Val Asp Leu Arg | Thr 12370 | Ser Gly Thr Pro | Ser 12375 | Ser Leu Ser |
| Ser Pro 12380 | Thr Ile Met Ala | Ala 12385 | Gly Pro Leu Leu | Val 12390 | Pro Phe Thr |
| Leu Asn 12395 | Phe Thr Ile Thr | Asn 12400 | Leu Gln Tyr Gly | Glu 12405 | Asp Met Gly |
| His Pro 12410 | Gly Ser Arg Lys | Phe 12415 | Asn Thr Thr Glu | Arg 12420 | Val Leu Gln |
| Gly Leu 12425 | Leu Gly Pro Ile | Phe 12430 | Lys Asn Thr Ser | Val 12435 | Gly Pro Leu |
| Tyr Ser 12440 | Gly Cys Arg Leu | Thr 12445 | Ser Leu Arg Ser | Glu 12450 | Lys Asp Gly |
| Ala Ala 12455 | Thr Gly Val Asp | Ala 12460 | Ile Cys Ile His | His 12465 | Leu Asp Pro |
| Lys Ser 12470 | Pro Gly Leu Asn | Arg 12475 | Glu Arg Leu Tyr | Trp 12480 | Glu Leu Ser |
| Gln Leu 12485 | Thr Asn Gly Ile | Lys 12490 | Glu Leu Gly Pro | Tyr 12495 | Thr Leu Asp |
| Arg Asn 12500 | Ser Leu Tyr Val | Asn 12505 | Gly Phe Thr His | Arg 12510 | Thr Ser Val |
| Pro Thr 12515 | Ser Ser Thr Pro | Gly 12520 | Thr Ser Thr Val | Asp 12525 | Leu Gly Thr |
| Ser Gly | Thr Pro Phe Ser Leu | Pro Ser Pro Ala Thr | Ala Gly Pro | | |

12530

| | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Leu | Leu | Val | Leu | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Lys |
| 12545 | | | | | | 12550 | | | | | 12555 | | | |
| Tyr | Glu | Glu | Asp | Met | His | Arg | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr |
| 12560 | | | | | | 12565 | | | | | 12570 | | | |
| Thr | Glu | Arg | Val | Leu | Gln | Thr | Leu | Leu | Gly | Pro | Met | Phe | Lys | Asn |
| 12575 | | | | | | 12580 | | | | | 12585 | | | |
| Thr | Ser | Val | Gly | Leu | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu |
| 12590 | | | | | | 12595 | | | | | 12600 | | | |
| Arg | Ser | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys |
| 12605 | | | | | | 12610 | | | | | 12615 | | | |
| Thr | His | Arg | Leu | Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Gln |
| 12620 | | | | | | 12625 | | | | | 12630 | | | |
| Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | Asn | Gly | Ile | Lys | Glu | Leu |
| 12635 | | | | | | 12640 | | | | | 12645 | | | |
| Gly | Pro | Tyr | Thr | Leu | Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe |
| 12650 | | | | | | 12655 | | | | | 12660 | | | |
| Thr | His | Trp | Ile | Pro | Val | Pro | Thr | Ser | Ser | Thr | Pro | Gly | Thr | Ser |
| 12665 | | | | | | 12670 | | | | | 12675 | | | |
| Thr | Val | Asp | Leu | Gly | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Pro | Ser | Pro |
| 12680 | | | | | | 12685 | | | | | 12690 | | | |
| Thr | Ala | Ala | Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr |
| 12695 | | | | | | 12700 | | | | | 12705 | | | |
| Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | His | Pro | Gly | Ser |
| 12710 | | | | | | 12715 | | | | | 12720 | | | |
| Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Gly |
| 12725 | | | | | | 12730 | | | | | 12735 | | | |
| Pro | Met | Phe | Lys | Asn | Thr | Ser | Val | Gly | Leu | Leu | Tyr | Ser | Gly | Cys |
| 12740 | | | | | | 12745 | | | | | 12750 | | | |
| Arg | Leu | Thr | Leu | Leu | Arg | Ser | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly |
| 12755 | | | | | | 12760 | | | | | 12765 | | | |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Val | Asp | Ala | Ile | Cys | Thr | His | Arg | Leu | Asp | Pro | Lys | Ser | Pro | Gly |
| | 12770 | | | | | 12775 | | | | | 12780 | | | |
| Val | Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | Asn |
| | 12785 | | | | | 12790 | | | | | 12795 | | | |
| Gly | Ile | Lys | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg | Asn | Ser | Leu |
| | 12800 | | | | | 12805 | | | | | 12810 | | | |
| Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Thr | Ser | Ala | Pro | Asn | Thr | Ser |
| | 12815 | | | | | 12820 | | | | | 12825 | | | |
| Thr | Pro | Gly | Thr | Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser | Gly | Thr | Pro |
| | 12830 | | | | | 12835 | | | | | 12840 | | | |
| Ser | Ser | Leu | Pro | Ser | Pro | Thr | Ser | Ala | Gly | Pro | Leu | Leu | Val | Pro |
| | 12845 | | | | | 12850 | | | | | 12855 | | | |
| Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp |
| | 12860 | | | | | 12865 | | | | | 12870 | | | |
| Met | Arg | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val |
| | 12875 | | | | | 12880 | | | | | 12885 | | | |
| Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys | Ser | Thr | Ser | Val | Gly |
| | 12890 | | | | | 12895 | | | | | 12900 | | | |
| Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Ser | Glu | Lys |
| | 12905 | | | | | 12910 | | | | | 12915 | | | |
| Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr | His | Arg | Leu |
| | 12920 | | | | | 12925 | | | | | 12930 | | | |
| Asp | Pro | Lys | Ser | Pro | Gly | Val | Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Glu |
| | 12935 | | | | | 12940 | | | | | 12945 | | | |
| Leu | Ser | Gln | Leu | Thr | Asn | Gly | Ile | Lys | Glu | Leu | Gly | Pro | Tyr | Thr |
| | 12950 | | | | | 12955 | | | | | 12960 | | | |
| Leu | Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Thr |
| | 12965 | | | | | 12970 | | | | | 12975 | | | |
| Ser | Ala | Pro | Asn | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | Asp | Leu |
| | 12980 | | | | | 12985 | | | | | 12990 | | | |
| Gly | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Pro | Ser | Pro | Thr | Ser | Ala |
| | 12995 | | | | | 13000 | | | | | 13005 | | | |

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn |
| | 13010 | | | | | 13015 | | | | | 13020 | | | |
| Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | His | Pro | Gly | Ser | Arg | Lys | Phe |
| | 13025 | | | | | 13030 | | | | | 13035 | | | |
| Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Gly | Pro | Met | Phe |
| | 13040 | | | | | 13045 | | | | | 13050 | | | |
| Lys | Asn | Thr | Ser | Val | Gly | Leu | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr |
| | 13055 | | | | | 13060 | | | | | 13065 | | | |
| Leu | Leu | Arg | Pro | Glu | Lys | Asn | Gly | Ala | Ala | Thr | Gly | Met | Asp | Ala |
| | 13070 | | | | | 13075 | | | | | 13080 | | | |
| Ile | Cys | Ser | His | Arg | Leu | Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asn | Arg |
| | 13085 | | | | | 13090 | | | | | 13095 | | | |
| Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | His | Gly | Ile | Lys |
| | 13100 | | | | | 13105 | | | | | 13110 | | | |
| Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn |
| | 13115 | | | | | 13120 | | | | | 13125 | | | |
| Gly | Phe | Thr | His | Arg | Ser | Ser | Val | Ala | Pro | Thr | Ser | Thr | Pro | Gly |
| | 13130 | | | | | 13135 | | | | | 13140 | | | |
| Thr | Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu |
| | 13145 | | | | | 13150 | | | | | 13155 | | | |
| Pro | Ser | Pro | Thr | Thr | Ala | Val | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu |
| | 13160 | | | | | 13165 | | | | | 13170 | | | |
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Gly | Glu | Asp | Met | Arg | His |
| | 13175 | | | | | 13180 | | | | | 13185 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |
| | 13190 | | | | | 13195 | | | | | 13200 | | | |
| Leu | Leu | Gly | Pro | Leu | Phe | Lys | Asn | Ser | Ser | Val | Gly | Pro | Leu | Tyr |
| | 13205 | | | | | 13210 | | | | | 13215 | | | |
| Ser | Gly | Cys | Arg | Leu | Ile | Ser | Leu | Arg | Ser | Glu | Lys | Asp | Gly | Ala |
| | 13220 | | | | | 13225 | | | | | 13230 | | | |
| Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr | His | His | Leu | Asn | Pro | Gln |
| | 13235 | | | | | 13240 | | | | | 13245 | | | |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Ser | Pro | Gly | Leu | Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Gln | Leu | Ser | Gln |
| | 13250 | | | | | 13255 | | | | | 13260 | | | |
| Met | Thr | Asn | Gly | Ile | Lys | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg |
| | 13265 | | | | | 13270 | | | | | 13275 | | | |
| Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Ser | Gly | Leu |
| | 13280 | | | | | 13285 | | | | | 13290 | | | |
| Thr | Thr | Ser | Thr | Pro | Trp | Thr | Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser |
| | 13295 | | | | | 13300 | | | | | 13305 | | | |
| Gly | Thr | Pro | Ser | Pro | Val | Pro | Ser | Pro | Thr | Thr | Ala | Gly | Pro | Leu |
| | 13310 | | | | | 13315 | | | | | 13320 | | | |
| Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr |
| | 13325 | | | | | 13330 | | | | | 13335 | | | |
| Glu | Glu | Asp | Met | His | Arg | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Ala | Thr |
| | 13340 | | | | | 13345 | | | | | 13350 | | | |
| Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Ser | Pro | Ile | Phe | Lys | Asn | Ser |
| | 13355 | | | | | 13360 | | | | | 13365 | | | |
| Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Ser | Leu | Arg |
| | 13370 | | | | | 13375 | | | | | 13380 | | | |
| Pro | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly | Met | Asp | Ala | Val | Cys | Leu |
| | 13385 | | | | | 13390 | | | | | 13395 | | | |
| Tyr | His | Pro | Asn | Pro | Lys | Arg | Pro | Gly | Leu | Asp | Arg | Glu | Gln | Leu |
| | 13400 | | | | | 13405 | | | | | 13410 | | | |
| Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | His | Asn | Ile | Thr | Glu | Leu | Gly |
| | 13415 | | | | | 13420 | | | | | 13425 | | | |
| Pro | Tyr | Ser | Leu | Asp | Arg | Asp | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr |
| | 13430 | | | | | 13435 | | | | | 13440 | | | |
| His | Gln | Asn | Ser | Val | Pro | Thr | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr |
| | 13445 | | | | | 13450 | | | | | 13455 | | | |
| Val | Tyr | Trp | Ala | Thr | Thr | Gly | Thr | Pro | Ser | Ser | Phe | Pro | Gly | His |
| | 13460 | | | | | 13465 | | | | | 13470 | | | |
| Thr | Glu | Pro | Gly | Pro | Leu | Leu | Ile | Pro | Phe | Thr | Phe | Asn | Phe | Thr |

13475

| | | | | |
|------------------|-----------------|--------------|------------------------------|-------------|
| Ile Thr 13490 | Asn Leu His Tyr | Glu 13495 | Glu Asn Met Gln His 13500 | Pro Gly Ser |
| Arg Lys 13505 | Phe Asn Thr Thr | Glu 13510 | Arg Val Leu Gln Gly 13515 | Leu Leu Lys |
| Pro Leu 13520 | Phe Lys Asn Thr | Ser 13525 | Val Gly Pro Leu Tyr 13530 | Ser Gly Cys |
| Arg Leu 13535 | Thr Ser Leu Arg | Pro 13540 | Glu Lys Asp Gly Ala 13545 | Ala Thr Gly |
| Met Asp 13550 | Ala Val Cys Leu | Tyr 13555 | His Pro Asn Pro Lys 13560 | Arg Pro Gly |
| Leu Asp 13565 | Arg Glu Gln Leu | Tyr 13570 | Cys Glu Leu Ser Gln 13575 | Leu Thr His |
| Asn Ile 13580 | Thr Glu Leu Gly | Pro 13585 | Tyr Ser Leu Asp Arg 13590 | Asp Ser Leu |
| Tyr Val 13595 | Asn Gly Phe Thr | His 13600 | Gln Asn Ser Val Pro 13605 | Thr Thr Ser |
| Thr Pro 13610 | Gly Thr Ser Thr | Val 13615 | Tyr Trp Ala Thr Thr 13620 | Gly Thr Pro |
| Ser Ser 13625 | Phe Pro Gly His | Thr 13630 | Glu Pro Gly Pro Leu 13635 | Leu Ile Pro |
| Phe Thr 13640 | Phe Asn Phe Thr | Ile 13645 | Thr Asn Leu His Tyr 13650 | Glu Glu Asn |
| Met Gln 13655 | His Pro Gly Ser | Arg 13660 | Lys Phe Asn Thr Thr 13665 | Glu Arg Val |
| Leu Gln 13670 | Gly Leu Leu Lys | Pro 13675 | Leu Phe Lys Asn Thr 13680 | Ser Val Gly |
| Pro Leu 13685 | Tyr Ser Gly Cys | Arg 13690 | Leu Thr Leu Leu Arg 13695 | Pro Glu Lys |
| His Glu 13700 | Ala Ala Thr Gly | Val 13705 | Asp Thr Ile Cys Thr 13710 | His Arg Val |

| | | | | | | |
|--------------|-----|-----------------|--------------|-----------------|--------------|-------------|
| Asp 13715 | Pro | Ile Gly Pro Gly | Leu 13720 | Asp Arg Glu Arg | Leu 13725 | Tyr Trp Glu |
| Leu 13730 | Ser | Gln Leu Thr Asn | Ser 13735 | Ile Thr Glu Leu | Gly 13740 | Pro Tyr Thr |
| Leu 13745 | Asp | Arg Asp Ser Leu | Tyr 13750 | Val Asn Gly Phe | Asn 13755 | Pro Arg Ser |
| Ser 13760 | Val | Pro Thr Thr Ser | Thr 13765 | Pro Gly Thr Ser | Thr 13770 | Val His Leu |
| Ala 13775 | Thr | Ser Gly Thr Pro | Ser 13780 | Ser Leu Pro Gly | His 13785 | Thr Ala Pro |
| Val 13790 | Pro | Leu Leu Ile Pro | Phe 13795 | Thr Leu Asn Phe | Thr 13800 | Ile Thr Asn |
| Leu 13805 | His | Tyr Glu Glu Asn | Met 13810 | Gln His Pro Gly | Ser 13815 | Arg Lys Phe |
| Asn 13820 | Thr | Thr Glu Arg Val | Leu 13825 | Gln Gly Leu Leu | Lys 13830 | Pro Leu Phe |
| Lys 13835 | Asn | Thr Ser Val Gly | Pro 13840 | Leu Tyr Ser Gly | Cys 13845 | Arg Leu Thr |
| Leu 13850 | Leu | Arg Pro Glu Lys | His 13855 | Glu Ala Ala Thr | Gly 13860 | Val Asp Thr |
| Ile 13865 | Cys | Thr His Arg Val | Asp 13870 | Pro Ile Gly Pro | Gly 13875 | Leu Asp Arg |
| Glu 13880 | Xaa | Leu Tyr Trp Glu | Leu 13885 | Ser Xaa Leu Thr | Xaa 13890 | Xaa Ile Xaa |
| Glu 13895 | Leu | Gly Pro Tyr Xaa | Leu 13900 | Asp Arg Xaa Ser | Leu 13905 | Tyr Val Asn |
| Gly 13910 | Phe | Xaa Xaa Xaa Xaa | Xaa 13915 | Xaa Xaa Xaa Thr | Ser 13920 | Thr Pro Gly |
| Thr 13925 | Ser | Xaa Val Xaa Leu | Xaa 13930 | Thr Ser Gly Thr | Pro 13935 | Xaa Xaa Xaa |
| Pro 13940 | Xaa | Xaa Thr Ser Ala | Gly 13945 | Pro Leu Leu Val | Pro 13950 | Phe Thr Leu |

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | His |
| | 13955 | | | | | 13960 | | | | | 13965 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |
| | 13970 | | | | | 13975 | | | | | 13980 | | | |
| Leu | Leu | Gly | Pro | Met | Phe | Lys | Asn | Thr | Ser | Val | Gly | Leu | Leu | Tyr |
| | 13985 | | | | | 13990 | | | | | 13995 | | | |
| Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Asn | Gly | Ala |
| | 14000 | | | | | 14005 | | | | | 14010 | | | |
| Ala | Thr | Gly | Met | Asp | Ala | Ile | Cys | Ser | His | Arg | Leu | Asp | Pro | Lys |
| | 14015 | | | | | 14020 | | | | | 14025 | | | |
| Ser | Pro | Gly | Leu | Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln |
| | 14030 | | | | | 14035 | | | | | 14040 | | | |
| Leu | Thr | His | Gly | Ile | Lys | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg |
| | 14045 | | | | | 14050 | | | | | 14055 | | | |
| Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Ser | Val | Ala |
| | 14060 | | | | | 14065 | | | | | 14070 | | | |
| Pro | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser |
| | 14075 | | | | | 14080 | | | | | 14085 | | | |
| Gly | Thr | Pro | Ser | Ser | Leu | Pro | Ser | Pro | Thr | Thr | Ala | Val | Pro | Leu |
| | 14090 | | | | | 14095 | | | | | 14100 | | | |
| Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr |
| | 14105 | | | | | 14110 | | | | | 14115 | | | |
| Gly | Glu | Asp | Met | Arg | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr |
| | 14120 | | | | | 14125 | | | | | 14130 | | | |
| Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Gly | Pro | Leu | Phe | Lys | Asn | Ser |
| | 14135 | | | | | 14140 | | | | | 14145 | | | |
| Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Ile | Ser | Leu | Arg |
| | 14150 | | | | | 14155 | | | | | 14160 | | | |
| Ser | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr |
| | 14165 | | | | | 14170 | | | | | 14175 | | | |
| His | His | Leu | Asn | Pro | Gln | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Gln | Leu |
| | 14180 | | | | | 14185 | | | | | 14190 | | | |

| | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Tyr | Trp | Gln | Leu | Ser | Gln | Met | Thr | Asn | Gly | Ile | Lys | Glu | Leu | Gly |
| 14195 | | | | | | 14200 | | | | | 14205 | | | |
| Pro | Tyr | Thr | Leu | Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr |
| 14210 | | | | | | 14215 | | | | | 14220 | | | |
| His | Arg | Ser | Ser | Gly | Leu | Thr | Thr | Ser | Thr | Pro | Trp | Thr | Ser | Thr |
| 14225 | | | | | | 14230 | | | | | 14235 | | | |
| Val | Asp | Leu | Gly | Thr | Ser | Gly | Thr | Pro | Ser | Pro | Val | Pro | Ser | Pro |
| 14240 | | | | | | 14245 | | | | | 14250 | | | |
| Thr | Thr | Ala | Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr |
| 14255 | | | | | | 14260 | | | | | 14265 | | | |
| Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | Arg | Pro | Gly | Ser |
| 14270 | | | | | | 14275 | | | | | 14280 | | | |
| Arg | Lys | Phe | Asn | Ala | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Ser |
| 14285 | | | | | | 14290 | | | | | 14295 | | | |
| Pro | Ile | Phe | Lys | Asn | Ser | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys |
| 14300 | | | | | | 14305 | | | | | 14310 | | | |
| Arg | Leu | Thr | Ser | Leu | Arg | Pro | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly |
| 14315 | | | | | | 14320 | | | | | 14325 | | | |
| Met | Asp | Ala | Val | Cys | Leu | Tyr | His | Pro | Asn | Pro | Lys | Arg | Pro | Gly |
| 14330 | | | | | | 14335 | | | | | 14340 | | | |
| Leu | Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | His |
| 14345 | | | | | | 14350 | | | | | 14355 | | | |
| Asn | Ile | Thr | Glu | Leu | Gly | Pro | Tyr | Ser | Leu | Asp | Arg | Asp | Ser | Leu |
| 14360 | | | | | | 14365 | | | | | 14370 | | | |
| Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Ser | Ser | Met | Thr | Thr | Thr | Arg |
| 14375 | | | | | | 14380 | | | | | 14385 | | | |
| Thr | Pro | Asp | Thr | Ser | Thr | Met | His | Leu | Ala | Thr | Ser | Arg | Thr | Pro |
| 14390 | | | | | | 14395 | | | | | 14400 | | | |
| Ala | Ser | Leu | Ser | Gly | Pro | Thr | Thr | Ala | Ser | Pro | Leu | Leu | Val | Leu |
| 14405 | | | | | | 14410 | | | | | 14415 | | | |
| Phe | Thr | Ile | Asn | Cys | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp |

14420

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Met | Arg | Arg | Thr | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Met | Glu | Ser | Val |
| | 14435 | | | | | 14440 | | | | | 14445 | | | |
| Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys | Asn | Thr | Ser | Val | Gly |
| | 14450 | | | | | 14455 | | | | | 14460 | | | |
| Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Lys | Lys |
| | 14465 | | | | | 14470 | | | | | 14475 | | | |
| Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr | His | Arg | Leu |
| | 14480 | | | | | 14485 | | | | | 14490 | | | |
| Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asn | Arg | Glu | Gln | Leu | Tyr | Trp | Glu |
| | 14495 | | | | | 14500 | | | | | 14505 | | | |
| Leu | Ser | Lys | Leu | Thr | Asn | Asp | Ile | Glu | Glu | Leu | Gly | Pro | Tyr | Thr |
| | 14510 | | | | | 14515 | | | | | 14520 | | | |
| Leu | Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Ser |
| | 14525 | | | | | 14530 | | | | | 14535 | | | |
| Ser | Val | Ser | Thr | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | Asp | Leu |
| | 14540 | | | | | 14545 | | | | | 14550 | | | |
| Arg | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Ser | Ser | Pro | Thr | Ile | Met |
| | 14555 | | | | | 14560 | | | | | 14565 | | | |
| Xaa | Xaa | Xaa | Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile |
| | 14570 | | | | | 14575 | | | | | 14580 | | | |
| Thr | Asn | Leu | Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser | Arg |
| | 14585 | | | | | 14590 | | | | | 14595 | | | |
| Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Arg | Pro |
| | 14600 | | | | | 14605 | | | | | 14610 | | | |
| Leu | Phe | Lys | Asn | Thr | Ser | Val | Ser | Ser | Leu | Tyr | Ser | Gly | Cys | Arg |
| | 14615 | | | | | 14620 | | | | | 14625 | | | |
| Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Arg | Val |
| | 14630 | | | | | 14635 | | | | | 14640 | | | |
| Asp | Ala | Ala | Cys | Thr | Tyr | Arg | Pro | Asp | Pro | Lys | Ser | Pro | Gly | Leu |
| | 14645 | | | | | 14650 | | | | | 14655 | | | |

Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Ser
 14660 14665 14670
 Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg Val Ser Leu Tyr
 14675 14680 14685
 Val Asn Gly Phe Asn Pro Arg Ser Ser Val Pro Thr Thr Ser Thr
 14690 14695 14700
 Pro Gly Thr Ser Thr Val His Leu Ala Thr Ser Gly Thr Pro Ser
 14705 14710 14715
 Ser Leu Pro Gly His Thr Xaa Xaa Xaa Pro Leu Leu Xaa Pro Phe
 14720 14725 14730
 Thr Leu Asn Phe Thr Ile Thr Asn Leu Xaa Tyr Glu Glu Xaa Met
 14735 14740 14745
 Xaa Xaa Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu
 14750 14755 14760
 Gln Gly Leu Leu Lys Pro Leu Phe Arg Asn Ser Ser Leu Glu Tyr
 14765 14770 14775
 Leu Tyr Ser Gly Cys Arg Leu Ala Ser Leu Arg Pro Glu Lys Asp
 14780 14785 14790
 Ser Ser Ala Met Ala Val Asp Ala Ile Cys Thr His Arg Pro Asp
 14795 14800 14805
 Pro Glu Asp Leu Gly Leu Asp Arg Glu Arg Leu Tyr Trp Glu Leu
 14810 14815 14820
 Ser Asn Leu Thr Asn Gly Ile Gln Glu Leu Gly Pro Tyr Thr Leu
 14825 14830 14835
 Asp Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser
 14840 14845 14850
 Phe Leu Thr Thr Ser Thr Pro Trp Thr Ser Thr Val Asp Leu Gly
 14855 14860 14865
 Thr Ser Gly Thr Pro Ser Pro Val Pro Ser Pro Thr Thr Ala Gly
 14870 14875 14880
 Pro Leu Leu Val Pro Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu
 14885 14890 14895

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| | | | |
|------------------|------------------------------|------------------------------|-------------|
| Gln Tyr 14900 | Glu Glu Asp Met His 14905 | Arg Pro Gly Ser Arg 14910 | Arg Phe Asn |
| Thr Thr 14915 | Glu Arg Val Leu Gln 14920 | Gly Leu Leu Thr Pro 14925 | Leu Phe Lys |
| Asn Thr 14930 | Ser Val Gly Pro Leu 14935 | Tyr Ser Gly Cys Arg 14940 | Leu Thr Leu |
| Leu Arg 14945 | Pro Glu Lys Gln Glu 14950 | Ala Ala Thr Gly Val 14955 | Asp Thr Ile |
| Cys Thr 14960 | His Arg Val Asp Pro 14965 | Ile Gly Pro Gly Leu 14970 | Asp Arg Glu |
| Arg Leu 14975 | Tyr Trp Glu Leu Ser 14980 | Gln Leu Thr Asn Ser 14985 | Ile Thr Glu |
| Leu Gly 14990 | Pro Tyr Thr Leu Asp 14995 | Arg Asp Ser Leu Tyr 15000 | Val Asn Gly |
| Phe Asn 15005 | Pro Trp Ser Ser Val 15010 | Pro Thr Thr Ser Thr 15015 | Pro Gly Thr |
| Ser Thr 15020 | Val His Leu Ala Thr 15025 | Ser Gly Thr Pro Ser 15030 | Ser Leu Pro |
| Gly His 15035 | Thr Ala Pro Val Pro 15040 | Leu Leu Ile Pro Phe 15045 | Thr Leu Asn |
| Phe Thr 15050 | Ile Thr Asp Leu His 15055 | Tyr Glu Glu Asn Met 15060 | Gln His Pro |
| Gly Ser 15065 | Arg Lys Phe Asn Thr 15070 | Thr Glu Arg Val Leu 15075 | Gln Gly Leu |
| Leu Lys 15080 | Pro Leu Phe Lys Ser 15085 | Thr Ser Val Gly Pro 15090 | Leu Tyr Ser |
| Gly Cys 15095 | Arg Leu Thr Leu Leu 15100 | Arg Pro Glu Lys His 15105 | Gly Ala Ala |
| Thr Gly 15110 | Val Asp Ala Ile Cys 15115 | Thr Leu Arg Leu Asp 15120 | Pro Thr Gly |
| Pro Gly 15125 | Leu Asp Arg Glu Arg 15130 | Leu Tyr Trp Glu Leu 15135 | Ser Gln Leu |

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Thr | Asn | Ser | Val | Thr | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg | Asp |
| | 15140 | | | | | 15145 | | | | | 15150 | | | |
| Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Ser | Val | Pro | Thr |
| | 15155 | | | | | 15160 | | | | | 15165 | | | |
| Thr | Ser | Ile | Pro | Gly | Thr | Ser | Ala | Val | His | Leu | Glu | Thr | Ser | Gly |
| | 15170 | | | | | 15175 | | | | | 15180 | | | |
| Thr | Pro | Ala | Ser | Leu | Pro | Gly | His | Thr | Ala | Pro | Gly | Pro | Leu | Leu |
| | 15185 | | | | | 15190 | | | | | 15195 | | | |
| Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu |
| | 15200 | | | | | 15205 | | | | | 15210 | | | |
| Glu | Asp | Met | Arg | His | Pro | Gly | Ser | Arg | Lys | Phe | Ser | Thr | Thr | Glu |
| | 15215 | | | | | 15220 | | | | | 15225 | | | |
| Arg | Val | Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys | Asn | Thr | Ser |
| | 15230 | | | | | 15235 | | | | | 15240 | | | |
| Val | Ser | Ser | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro |
| | 15245 | | | | | 15250 | | | | | 15255 | | | |
| Glu | Lys | Asp | Gly | Ala | Ala | Thr | Arg | Val | Asp | Ala | Val | Cys | Thr | His |
| | 15260 | | | | | 15265 | | | | | 15270 | | | |
| Arg | Pro | Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Arg | Leu | Tyr |
| | 15275 | | | | | 15280 | | | | | 15285 | | | |
| Trp | Lys | Leu | Ser | Gln | Leu | Thr | His | Gly | Ile | Thr | Glu | Leu | Gly | Pro |
| | 15290 | | | | | 15295 | | | | | 15300 | | | |
| Tyr | Thr | Leu | Asp | Arg | His | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His |
| | 15305 | | | | | 15310 | | | | | 15315 | | | |
| Gln | Ser | Ser | Met | Thr | Thr | Thr | Arg | Thr | Pro | Asp | Thr | Ser | Thr | Met |
| | 15320 | | | | | 15325 | | | | | 15330 | | | |
| His | Leu | Ala | Thr | Ser | Arg | Thr | Pro | Ala | Ser | Leu | Ser | Gly | Pro | Thr |
| | 15335 | | | | | 15340 | | | | | 15345 | | | |
| Thr | Ala | Ser | Pro | Leu | Leu | Val | Leu | Phe | Thr | Ile | Asn | Phe | Thr | Ile |
| | 15350 | | | | | 15355 | | | | | 15360 | | | |
| Thr | Asn | Gln | Arg | Tyr | Glu | Glu | Asn | Met | His | His | Pro | Gly | Ser | Arg |

15365

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Arg | Pro |
| | 15380 | | | | | 15385 | | | | | 15390 | | | |
| Val | Phe | Lys | Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg |
| | 15395 | | | | | 15400 | | | | | 15405 | | | |
| Leu | Thr | Leu | Leu | Arg | Pro | Lys | Lys | Asp | Gly | Ala | Ala | Thr | Lys | Val |
| | 15410 | | | | | 15415 | | | | | 15420 | | | |
| Asp | Ala | Ile | Cys | Thr | Tyr | Arg | Pro | Asp | Pro | Lys | Ser | Pro | Gly | Leu |
| | 15425 | | | | | 15430 | | | | | 15435 | | | |
| Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | His | Ser |
| | 15440 | | | | | 15445 | | | | | 15450 | | | |
| Ile | Thr | Glu | Leu | Gly | Pro | Tyr | Thr | Gln | Asp | Arg | Asp | Ser | Leu | Tyr |
| | 15455 | | | | | 15460 | | | | | 15465 | | | |
| Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Ser | Val | Pro | Thr | Thr | Ser | Ile |
| | 15470 | | | | | 15475 | | | | | 15480 | | | |
| Pro | Gly | Thr | Ser | Ala | Val | His | Leu | Glu | Thr | Ser | Gly | Thr | Pro | Ala |
| | 15485 | | | | | 15490 | | | | | 15495 | | | |
| Ser | Leu | Pro | Gly | His | Thr | Ala | Pro | Gly | Pro | Leu | Leu | Val | Pro | Phe |
| | 15500 | | | | | 15505 | | | | | 15510 | | | |
| Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met |
| | 15515 | | | | | 15520 | | | | | 15525 | | | |
| Arg | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu |
| | 15530 | | | | | 15535 | | | | | 15540 | | | |
| Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys | Ser | Thr | Ser | Val | Gly | Pro |
| | 15545 | | | | | 15550 | | | | | 15555 | | | |
| Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Arg |
| | 15560 | | | | | 15565 | | | | | 15570 | | | |
| Gly | Ala | Ala | Thr | Gly | Val | Asp | Thr | Ile | Cys | Thr | His | Arg | Leu | Asp |
| | 15575 | | | | | 15580 | | | | | 15585 | | | |
| Pro | Leu | Asn | Pro | Gly | Leu | Asp | Arg | Glu | Gln | Leu | Tyr | Trp | Glu | Leu |
| | 15590 | | | | | 15595 | | | | | 15600 | | | |

Ser Lys 15605 Leu Thr Arg Gly Ile 15610 Ile Glu Leu Gly Pro 15615 Tyr Leu Leu
 Asp Arg 15620 Gly Ser Leu Tyr Val 15625 Asn Gly Phe Thr His 15630 Arg Thr Ser
 Val Pro 15635 Thr Thr Ser Thr Pro 15640 Gly Thr Ser Thr Val 15645 Asp Leu Gly
 Thr Ser 15650 Gly Thr Pro Phe Ser 15655 Leu Pro Ser Pro Ala 15660 Xaa Xaa Xaa
 Pro Leu 15665 Leu Xaa Pro Phe Thr 15670 Leu Asn Phe Thr Ile 15675 Thr Asn Leu
 Xaa Tyr 15680 Glu Glu Xaa Met Xaa 15685 Xaa Pro Gly Ser Arg 15690 Lys Phe Asn
 Thr Thr 15695 Glu Arg Val Leu Gln 15700 Thr Leu Leu Gly Pro 15705 Met Phe Lys
 Asn Thr 15710 Ser Val Gly Leu Leu 15715 Tyr Ser Gly Cys Arg 15720 Leu Thr Leu
 Leu Arg 15725 Ser Glu Lys Asp Gly 15730 Ala Ala Thr Gly Val 15735 Asp Ala Ile
 Cys Thr 15740 His Arg Leu Asp Pro 15745 Lys Ser Pro Gly Val 15750 Asp Arg Glu
 Gln Leu 15755 Tyr Trp Glu Leu Ser 15760 Gln Leu Thr Asn Gly 15765 Ile Lys Glu
 Leu Gly 15770 Pro Tyr Thr Leu Asp 15775 Arg Asn Ser Leu Tyr 15780 Val Asn Gly
 Phe Thr 15785 His Trp Ile Pro Val 15790 Pro Thr Ser Ser Thr 15795 Pro Gly Thr
 Ser Thr 15800 Val Asp Leu Gly Ser 15805 Gly Thr Pro Ser Leu 15810 Pro Ser Ser
 Pro Thr 15815 Thr Ala Gly Pro Leu 15820 Leu Val Pro Phe Thr 15825 Leu Asn Phe
 Thr Ile 15830 Thr Asn Leu Lys Tyr 15835 Glu Glu Asp Met His 15840 Cys Pro Gly

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| | | | | | | | | | | | | | | |
|-----|--------------|-----|-----|-----|-----|--------------|-----|-----|-----|-----|--------------|-----|-----|-----|
| Ser | Arg 15845 | Lys | Phe | Asn | Thr | Thr 15850 | Glu | Arg | Val | Leu | Gln 15855 | Ser | Leu | Leu |
| Gly | Pro 15860 | Met | Phe | Lys | Asn | Thr 15865 | Ser | Val | Gly | Pro | Leu 15870 | Tyr | Ser | Gly |
| Cys | Arg 15875 | Leu | Thr | Leu | Leu | Arg 15880 | Ser | Glu | Lys | Asp | Gly 15885 | Ala | Ala | Thr |
| Gly | Val 15890 | Asp | Ala | Ile | Cys | Thr 15895 | His | Arg | Leu | Asp | Pro 15900 | Lys | Ser | Pro |
| Gly | Val 15905 | Asp | Arg | Glu | Gln | Leu 15910 | Tyr | Trp | Glu | Leu | Ser 15915 | Gln | Leu | Thr |
| Asn | Gly 15920 | Ile | Lys | Glu | Leu | Gly 15925 | Pro | Tyr | Thr | Leu | Asp 15930 | Arg | Asn | Ser |
| Leu | Tyr 15935 | Val | Asn | Gly | Phe | Thr 15940 | His | Gln | Thr | Ser | Ala 15945 | Pro | Asn | Thr |
| Ser | Thr 15950 | Pro | Gly | Thr | Ser | Thr 15955 | Val | Asp | Leu | Gly | Thr 15960 | Ser | Gly | Thr |
| Pro | Ser 15965 | Ser | Leu | Pro | Ser | Pro 15970 | Thr | Xaa | Xaa | Xaa | Pro 15975 | Leu | Leu | Xaa |
| Pro | Phe 15980 | Thr | Leu | Asn | Phe | Thr 15985 | Ile | Thr | Asn | Leu | Xaa 15990 | Tyr | Glu | Glu |
| Xaa | Met 15995 | Xaa | Xaa | Pro | Gly | Ser 16000 | Arg | Lys | Phe | Asn | Thr 16005 | Thr | Glu | Arg |
| Val | Leu 16010 | Gln | Gly | Leu | Leu | Xaa 16015 | Pro | Xaa | Phe | Lys | Xaa 16020 | Thr | Ser | Val |
| Gly | Xaa 16025 | Leu | Tyr | Ser | Gly | Cys 16030 | Arg | Leu | Thr | Leu | Leu 16035 | Arg | Xaa | Glu |
| Lys | Xaa 16040 | Xaa | Ala | Ala | Thr | Xaa 16045 | Val | Asp | Xaa | Xaa | Cys 16050 | Xaa | Xaa | Xaa |
| Xaa | Asp 16055 | Pro | Xaa | Xaa | Pro | Gly 16060 | Leu | Asp | Arg | Glu | Xaa 16065 | Leu | Tyr | Trp |
| Glu | Leu 16070 | Ser | Xaa | Leu | Thr | Xaa 16075 | Xaa | Ile | Xaa | Glu | Leu 16080 | Gly | Pro | Tyr |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Xaa | Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Trp |
| | 16085 | | | | | 16090 | | | | | 16095 | | | |
| Ile | Pro | Val | Pro | Thr | Ser | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | Asp |
| | 16100 | | | | | 16105 | | | | | 16110 | | | |
| Leu | Gly | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Pro | Ser | Pro | Thr | Thr | Ala |
| | 16115 | | | | | 16120 | | | | | 16125 | | | |
| Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn |
| | 16130 | | | | | 16135 | | | | | 16140 | | | |
| Leu | Lys | Tyr | Glu | Glu | Asp | Met | His | Cys | Pro | Gly | Ser | Arg | Lys | Phe |
| | 16145 | | | | | 16150 | | | | | 16155 | | | |
| Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Ser | Leu | Leu | Gly | Pro | Met | Phe |
| | 16160 | | | | | 16165 | | | | | 16170 | | | |
| Lys | Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr |
| | 16175 | | | | | 16180 | | | | | 16185 | | | |
| Ser | Leu | Arg | Ser | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala |
| | 16190 | | | | | 16195 | | | | | 16200 | | | |
| Ile | Cys | Thr | His | Arg | Val | Asp | Pro | Lys | Ser | Pro | Gly | Val | Asp | Arg |
| | 16205 | | | | | 16210 | | | | | 16215 | | | |
| Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | Asn | Gly | Ile | Lys |
| | 16220 | | | | | 16225 | | | | | 16230 | | | |
| Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg | Asn | Ser | Leu | Tyr | Val | Asn |
| | 16235 | | | | | 16240 | | | | | 16245 | | | |
| Gly | Phe | Thr | His | Gln | Thr | Ser | Ala | Pro | Asn | Thr | Ser | Thr | Pro | Gly |
| | 16250 | | | | | 16255 | | | | | 16260 | | | |
| Thr | Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu |
| | 16265 | | | | | 16270 | | | | | 16275 | | | |
| Pro | Ser | Pro | Thr | Ser | Ala | Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu |
| | 16280 | | | | | 16285 | | | | | 16290 | | | |
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | His |
| | 16295 | | | | | 16300 | | | | | 16305 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |

16310

| | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Leu | Leu | Gly | Pro | Met | Phe | Lys | Asn | Thr | Ser | Val | Gly | Leu | Leu | Tyr |
| 16325 | | | | | | 16330 | | | | | 16335 | | | |
| Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Asn | Gly | Ala |
| 16340 | | | | | | 16345 | | | | | 16350 | | | |
| Ala | Thr | Gly | Met | Asp | Ala | Ile | Cys | Thr | His | Arg | Leu | Asp | Pro | Lys |
| 16355 | | | | | | 16360 | | | | | 16365 | | | |
| Ser | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa |
| 16370 | | | | | | 16375 | | | | | 16380 | | | |
| Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg |
| 16385 | | | | | | 16390 | | | | | 16395 | | | |
| Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| 16400 | | | | | | 16405 | | | | | 16410 | | | |
| Xaa | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Xaa | Val | Xaa | Leu | Xaa | Thr | Ser |
| 16415 | | | | | | 16420 | | | | | 16425 | | | |
| Gly | Thr | Pro | Xaa | Xaa | Xaa | Pro | Xaa | Xaa | Thr | Xaa | Xaa | Xaa | Pro | Leu |
| 16430 | | | | | | 16435 | | | | | 16440 | | | |
| Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Xaa | Tyr |
| 16445 | | | | | | 16450 | | | | | 16455 | | | |
| Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr |
| 16460 | | | | | | 16465 | | | | | 16470 | | | |
| Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Arg | Asn | Ser |
| 16475 | | | | | | 16480 | | | | | 16485 | | | |
| Ser | Leu | Glu | Tyr | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Ala | Ser | Leu | Arg |
| 16490 | | | | | | 16495 | | | | | 16500 | | | |
| Pro | Glu | Lys | Asp | Ser | Ser | Ala | Met | Ala | Val | Asp | Ala | Ile | Cys | Thr |
| 16505 | | | | | | 16510 | | | | | 16515 | | | |
| His | Arg | Pro | Asp | Pro | Glu | Asp | Leu | Gly | Leu | Asp | Arg | Glu | Arg | Leu |
| 16520 | | | | | | 16525 | | | | | 16530 | | | |
| Tyr | Trp | Glu | Leu | Ser | Asn | Leu | Thr | Asn | Gly | Ile | Gln | Glu | Leu | Gly |
| 16535 | | | | | | 16540 | | | | | 16545 | | | |

Pro Tyr Thr Leu Asp Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr
 16550 16555 16560
 His Arg Ser Ser Met Pro Thr Thr Ser Thr Pro Gly Thr Ser Thr
 16565 16570 16575
 Val Asp Val Gly Thr Ser Gly Thr Pro Ser Ser Ser Pro Ser Pro
 16580 16585 16590
 Thr Thr Ala Gly Pro Leu Leu Ile Pro Phe Thr Leu Asn Phe Thr
 16595 16600 16605
 Ile Thr Asn Leu Gln Tyr Gly Glu Asp Met Gly His Pro Gly Ser
 16610 16615 16620
 Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Gly
 16625 16630 16635
 Pro Ile Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys
 16640 16645 16650
 Arg Leu Thr Ser Leu Arg Ser Glu Lys Asp Gly Ala Ala Thr Gly
 16655 16660 16665
 Val Asp Ala Ile Cys Ile His His Leu Asp Pro Lys Ser Pro Gly
 16670 16675 16680
 Leu Asn Arg Glu Arg Leu Tyr Trp Glu Leu Ser Gln Leu Thr Asn
 16685 16690 16695
 Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp Arg Asn Ser Leu
 16700 16705 16710
 Tyr Val Asn Gly Phe Thr His Arg Thr Ser Val Pro Thr Thr Ser
 16715 16720 16725
 Thr Pro Gly Thr Ser Thr Val Asp Leu Gly Thr Ser Gly Thr Pro
 16730 16735 16740
 Phe Ser Leu Pro Ser Pro Ala Thr Ala Gly Pro Leu Leu Val Leu
 16745 16750 16755
 Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Lys Tyr Glu Glu Asp
 16760 16765 16770
 Met His Arg Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val
 16775 16780 16785

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Leu | Gln | Thr | Leu | Leu | Gly | Pro | Met | Phe | Lys | Asn | Thr | Ser | Val | Gly |
| | 16790 | | | | | 16795 | | | | | 16800 | | | |
| Leu | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Ser | Glu | Lys |
| | 16805 | | | | | 16810 | | | | | 16815 | | | |
| Asp | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr | His | Arg | Leu |
| | 16820 | | | | | 16825 | | | | | 16830 | | | |
| Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu |
| | 16835 | | | | | 16840 | | | | | 16845 | | | |
| Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa |
| | 16850 | | | | | 16855 | | | | | 16860 | | | |
| Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Xaa | Xaa | Xaa | Xaa |
| | 16865 | | | | | 16870 | | | | | 16875 | | | |
| Xaa | Xaa | Xaa | Xaa | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Xaa | Val | Xaa | Leu |
| | 16880 | | | | | 16885 | | | | | 16890 | | | |
| Xaa | Thr | Ser | Gly | Thr | Pro | Xaa | Xaa | Xaa | Pro | Xaa | Xaa | Thr | Xaa | Xaa |
| | 16895 | | | | | 16900 | | | | | 16905 | | | |
| Xaa | Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn |
| | 16910 | | | | | 16915 | | | | | 16920 | | | |
| Leu | Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser | Arg | Lys | Phe |
| | 16925 | | | | | 16930 | | | | | 16935 | | | |
| Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Arg | Pro | Val | Phe |
| | 16940 | | | | | 16945 | | | | | 16950 | | | |
| Lys | Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr |
| | 16955 | | | | | 16960 | | | | | 16965 | | | |
| Leu | Leu | Arg | Pro | Lys | Lys | Asp | Gly | Ala | Ala | Thr | Lys | Val | Asp | Ala |
| | 16970 | | | | | 16975 | | | | | 16980 | | | |
| Ile | Cys | Thr | Tyr | Arg | Pro | Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg |
| | 16985 | | | | | 16990 | | | | | 16995 | | | |
| Glu | Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | His | Ser | Ile | Thr |
| | 17000 | | | | | 17005 | | | | | 17010 | | | |
| Glu | Leu | Gly | Pro | Tyr | Thr | Gln | Asp | Arg | Asp | Ser | Leu | Tyr | Val | Asn |
| | 17015 | | | | | 17020 | | | | | 17025 | | | |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Gly | Phe | Thr | His | Arg | Ser | Ser | Val | Pro | Thr | Thr | Ser | Ile | Pro | Gly |
| | 17030 | | | | | 17035 | | | | | 17040 | | | |
| Thr | Ser | Ala | Val | His | Leu | Glu | Thr | Thr | Gly | Thr | Pro | Ser | Ser | Phe |
| | 17045 | | | | | 17050 | | | | | 17055 | | | |
| Pro | Gly | His | Thr | Glu | Pro | Gly | Pro | Leu | Leu | Ile | Pro | Phe | Thr | Phe |
| | 17060 | | | | | 17065 | | | | | 17070 | | | |
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | Arg | Tyr | Glu | Glu | Asn | Met | Gln | His |
| | 17075 | | | | | 17080 | | | | | 17085 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |
| | 17090 | | | | | 17095 | | | | | 17100 | | | |
| Leu | Leu | Thr | Pro | Leu | Phe | Lys | Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr |
| | 17105 | | | | | 17110 | | | | | 17115 | | | |
| Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Gln | Glu | Ala |
| | 17120 | | | | | 17125 | | | | | 17130 | | | |
| Ala | Thr | Gly | Val | Asp | Thr | Ile | Cys | Thr | His | Arg | Val | Asp | Pro | Ile |
| | 17135 | | | | | 17140 | | | | | 17145 | | | |
| Gly | Pro | Gly | Leu | Asp | Arg | Glu | Arg | Leu | Tyr | Trp | Glu | Leu | Ser | Gln |
| | 17150 | | | | | 17155 | | | | | 17160 | | | |
| Leu | Thr | Asn | Ser | Ile | Thr | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg |
| | 17165 | | | | | 17170 | | | | | 17175 | | | |
| Asp | Ser | Leu | Tyr | Val | Asp | Gly | Phe | Asn | Pro | Trp | Ser | Ser | Val | Pro |
| | 17180 | | | | | 17185 | | | | | 17190 | | | |
| Thr | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | His | Leu | Ala | Thr | Ser |
| | 17195 | | | | | 17200 | | | | | 17205 | | | |
| Gly | Thr | Pro | Ser | Pro | Leu | Pro | Gly | His | Thr | Ala | Pro | Val | Pro | Leu |
| | 17210 | | | | | 17215 | | | | | 17220 | | | |
| Leu | Ile | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asp | Leu | His | Tyr |
| | 17225 | | | | | 17230 | | | | | 17235 | | | |
| Glu | Glu | Asn | Met | Gln | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr |
| | 17240 | | | | | 17245 | | | | | 17250 | | | |
| Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys | Ser | Thr |

17255

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg |
| | 17270 | | | | | 17275 | | | | | 17280 | | | |
| Pro | Glu | Lys | His | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr |
| | 17285 | | | | | 17290 | | | | | 17295 | | | |
| Leu | Arg | Leu | Asp | Pro | Thr | Gly | Pro | Gly | Leu | Asp | Arg | Glu | Arg | Leu |
| | 17300 | | | | | 17305 | | | | | 17310 | | | |
| Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | Asn | Ser | Ile | Thr | Glu | Leu | Gly |
| | 17315 | | | | | 17320 | | | | | 17325 | | | |
| Pro | Tyr | Thr | Leu | Asp | Arg | Asp | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Asn |
| | 17330 | | | | | 17335 | | | | | 17340 | | | |
| Pro | Trp | Ser | Ser | Val | Pro | Thr | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr |
| | 17345 | | | | | 17350 | | | | | 17355 | | | |
| Val | His | Leu | Ala | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Pro | Gly | His |
| | 17360 | | | | | 17365 | | | | | 17370 | | | |
| Thr | Thr | Ala | Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr |
| | 17375 | | | | | 17380 | | | | | 17385 | | | |
| Ile | Thr | Asn | Leu | Lys | Tyr | Glu | Glu | Asp | Met | His | Cys | Pro | Gly | Ser |
| | 17390 | | | | | 17395 | | | | | 17400 | | | |
| Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Ser | Leu | His | Gly |
| | 17405 | | | | | 17410 | | | | | 17415 | | | |
| Pro | Met | Phe | Lys | Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys |
| | 17420 | | | | | 17425 | | | | | 17430 | | | |
| Arg | Leu | Thr | Leu | Leu | Arg | Ser | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly |
| | 17435 | | | | | 17440 | | | | | 17445 | | | |
| Val | Asp | Ala | Ile | Cys | Thr | His | Arg | Leu | Asp | Pro | Lys | Ser | Pro | Gly |
| | 17450 | | | | | 17455 | | | | | 17460 | | | |
| Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa |
| | 17465 | | | | | 17470 | | | | | 17475 | | | |
| Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu |
| | 17480 | | | | | 17485 | | | | | 17490 | | | |

Tyr Val Asn Gly Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Ser
 17495 17500 17505
 Thr Pro Gly Thr Ser Xaa Val Xaa Leu Xaa Thr Ser Gly Thr Pro
 17510 17515 17520
 Xaa Xaa Xaa Pro Xaa Xaa Thr Xaa Xaa Xaa Pro Leu Leu Xaa Pro
 17525 17530 17535
 Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Xaa Tyr Glu Glu Xaa
 17540 17545 17550
 Met Xaa Xaa Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val
 17555 17560 17565
 Leu Gln Gly Leu Leu Xaa Pro Xaa Phe Lys Xaa Thr Ser Val Gly
 17570 17575 17580
 Xaa Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Xaa Glu Lys
 17585 17590 17595
 Xaa Xaa Ala Ala Thr Xaa Val Asp Xaa Xaa Cys Xaa Xaa Xaa Xaa
 17600 17605 17610
 Asp Pro Xaa Xaa Pro Gly Leu Asp Arg Glu Xaa Leu Tyr Trp Glu
 17615 17620 17625
 Leu Ser Xaa Leu Thr Asn Ser Ile Thr Glu Leu Gly Pro Tyr Thr
 17630 17635 17640
 Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser
 17645 17650 17655
 Ser Met Pro Thr Thr Ser Ile Pro Gly Thr Ser Ala Val His Leu
 17660 17665 17670
 Glu Thr Ser Gly Thr Pro Ala Ser Leu Pro Gly His Thr Ala Pro
 17675 17680 17685
 Gly Pro Leu Leu Val Pro Phe Thr Leu Asn Phe Thr Ile Thr Asn
 17690 17695 17700
 Leu Gln Tyr Glu Glu Asp Met Arg His Pro Gly Ser Arg Lys Phe
 17705 17710 17715
 Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Lys Pro Leu Phe
 17720 17725 17730

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|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Lys | Ser | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr |
| | 17735 | | | | | 17740 | | | | | 17745 | | | |
| Leu | Leu | Arg | Pro | Glu | Lys | Arg | Gly | Ala | Ala | Thr | Gly | Val | Asp | Thr |
| | 17750 | | | | | 17755 | | | | | 17760 | | | |
| Ile | Cys | Thr | His | Arg | Leu | Asp | Pro | Leu | Asn | Pro | Gly | Leu | Asp | Arg |
| | 17765 | | | | | 17770 | | | | | 17775 | | | |
| Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa |
| | 17780 | | | | | 17785 | | | | | 17790 | | | |
| Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn |
| | 17795 | | | | | 17800 | | | | | 17805 | | | |
| Gly | Phe | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Thr | Ser | Thr | Pro | Gly |
| | 17810 | | | | | 17815 | | | | | 17820 | | | |
| Thr | Ser | Xaa | Val | Xaa | Leu | Xaa | Thr | Ser | Gly | Thr | Pro | Xaa | Xaa | Xaa |
| | 17825 | | | | | 17830 | | | | | 17835 | | | |
| Pro | Xaa | Xaa | Thr | Xaa | Xaa | Xaa | Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu |
| | 17840 | | | | | 17845 | | | | | 17850 | | | |
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa |
| | 17855 | | | | | 17860 | | | | | 17865 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |
| | 17870 | | | | | 17875 | | | | | 17880 | | | |
| Leu | Leu | Xaa | Pro | Xaa | Phe | Lys | Xaa | Thr | Ser | Val | Gly | Xaa | Leu | Tyr |
| | 17885 | | | | | 17890 | | | | | 17895 | | | |
| Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Xaa | Glu | Lys | Xaa | Xaa | Ala |
| | 17900 | | | | | 17905 | | | | | 17910 | | | |
| Ala | Thr | Xaa | Val | Asp | Xaa | Xaa | Cys | Xaa | Xaa | Xaa | Xaa | Asp | Pro | Xaa |
| | 17915 | | | | | 17920 | | | | | 17925 | | | |
| Xaa | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa |
| | 17930 | | | | | 17935 | | | | | 17940 | | | |
| Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg |
| | 17945 | | | | | 17950 | | | | | 17955 | | | |
| Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | His | Pro | Arg | Ser | Ser | Val | Pro |
| | 17960 | | | | | 17965 | | | | | 17970 | | | |

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|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Thr | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Thr | Val | His | Leu | Ala | Thr | Ser |
| | 17975 | | | | | 17980 | | | | | 17985 | | | |
| Gly | Thr | Pro | Ser | Ser | Leu | Pro | Gly | His | Thr | Ala | Pro | Val | Pro | Leu |
| | 17990 | | | | | 17995 | | | | | 18000 | | | |
| Leu | Ile | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | His | Tyr |
| | 18005 | | | | | 18010 | | | | | 18015 | | | |
| Glu | Glu | Asn | Met | Gln | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr |
| | 18020 | | | | | 18025 | | | | | 18030 | | | |
| Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Gly | Pro | Met | Phe | Lys | Asn | Thr |
| | 18035 | | | | | 18040 | | | | | 18045 | | | |
| Ser | Val | Gly | Leu | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg |
| | 18050 | | | | | 18055 | | | | | 18060 | | | |
| Pro | Glu | Lys | Asn | Gly | Ala | Ala | Thr | Gly | Met | Asp | Ala | Ile | Cys | Ser |
| | 18065 | | | | | 18070 | | | | | 18075 | | | |
| His | Arg | Leu | Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu |
| | 18080 | | | | | 18085 | | | | | 18090 | | | |
| Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly |
| | 18095 | | | | | 18100 | | | | | 18105 | | | |
| Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Xaa |
| | 18110 | | | | | 18115 | | | | | 18120 | | | |
| Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Xaa |
| | 18125 | | | | | 18130 | | | | | 18135 | | | |
| Val | Xaa | Leu | Xaa | Thr | Ser | Gly | Thr | Pro | Xaa | Xaa | Xaa | Pro | Xaa | Xaa |
| | 18140 | | | | | 18145 | | | | | 18150 | | | |
| Thr | Xaa | Xaa | Xaa | Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr |
| | 18155 | | | | | 18160 | | | | | 18165 | | | |
| Ile | Thr | Asn | Leu | Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser |
| | 18170 | | | | | 18175 | | | | | 18180 | | | |
| Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Xaa |
| | 18185 | | | | | 18190 | | | | | 18195 | | | |
| Pro | Xaa | Phe | Lys | Xaa | Thr | Ser | Val | Gly | Xaa | Leu | Tyr | Ser | Gly | Cys |

18200

| | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Arg | Leu | Thr | Leu | Leu | Arg | Xaa | Glu | Lys | Xaa | Xaa | Ala | Ala | Thr | Xaa |
| 18215 | | | | | | 18220 | | | | | 18225 | | | |
| Val | Asp | Xaa | Xaa | Cys | Xaa | Xaa | Xaa | Xaa | Asp | Pro | Xaa | Xaa | Pro | Gly |
| 18230 | | | | | | 18235 | | | | | 18240 | | | |
| Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa |
| 18245 | | | | | | 18250 | | | | | 18255 | | | |
| Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu |
| 18260 | | | | | | 18265 | | | | | 18270 | | | |
| Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Asn | Ser | Val | Pro | Thr | Thr | Ser |
| 18275 | | | | | | 18280 | | | | | 18285 | | | |
| Thr | Pro | Gly | Thr | Ser | Thr | Val | Tyr | Trp | Ala | Thr | Thr | Gly | Thr | Pro |
| 18290 | | | | | | 18295 | | | | | 18300 | | | |
| Ser | Ser | Phe | Pro | Gly | His | Thr | Glu | Pro | Gly | Pro | Leu | Leu | Ile | Pro |
| 18305 | | | | | | 18310 | | | | | 18315 | | | |
| Phe | Thr | Phe | Asn | Phe | Thr | Ile | Thr | Asn | Leu | His | Tyr | Glu | Glu | Asn |
| 18320 | | | | | | 18325 | | | | | 18330 | | | |
| Met | Gln | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val |
| 18335 | | | | | | 18340 | | | | | 18345 | | | |
| Leu | Gln | Gly | Leu | Leu | Thr | Pro | Leu | Phe | Lys | Asn | Thr | Ser | Val | Gly |
| 18350 | | | | | | 18355 | | | | | 18360 | | | |
| Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys |
| 18365 | | | | | | 18370 | | | | | 18375 | | | |
| Gln | Glu | Ala | Ala | Thr | Gly | Val | Asp | Thr | Ile | Cys | Thr | His | Arg | Val |
| 18380 | | | | | | 18385 | | | | | 18390 | | | |
| Asp | Pro | Ile | Gly | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu |
| 18395 | | | | | | 18400 | | | | | 18405 | | | |
| Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa |
| 18410 | | | | | | 18415 | | | | | 18420 | | | |
| Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Xaa | Xaa | Xaa | Xaa |
| 18425 | | | | | | 18430 | | | | | 18435 | | | |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Xaa | Xaa | Xaa | Xaa | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Xaa | Val | Xaa | Leu |
| | 18440 | | | | | 18445 | | | | | 18450 | | | |
| Xaa | Thr | Ser | Gly | Thr | Pro | Xaa | Xaa | Xaa | Pro | Xaa | Xaa | Thr | Xaa | Xaa |
| | 18455 | | | | | 18460 | | | | | 18465 | | | |
| Xaa | Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn |
| | 18470 | | | | | 18475 | | | | | 18480 | | | |
| Leu | Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser | Arg | Lys | Phe |
| | 18485 | | | | | 18490 | | | | | 18495 | | | |
| Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Xaa | Pro | Xaa | Phe |
| | 18500 | | | | | 18505 | | | | | 18510 | | | |
| Lys | Xaa | Thr | Ser | Val | Gly | Xaa | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr |
| | 18515 | | | | | 18520 | | | | | 18525 | | | |
| Leu | Leu | Arg | Xaa | Glu | Lys | Xaa | Xaa | Ala | Ala | Thr | Xaa | Val | Asp | Xaa |
| | 18530 | | | | | 18535 | | | | | 18540 | | | |
| Xaa | Cys | Xaa | Xaa | Xaa | Xaa | Asp | Pro | Xaa | Xaa | Pro | Gly | Leu | Asp | Arg |
| | 18545 | | | | | 18550 | | | | | 18555 | | | |
| Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa |
| | 18560 | | | | | 18565 | | | | | 18570 | | | |
| Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn |
| | 18575 | | | | | 18580 | | | | | 18585 | | | |
| Gly | Phe | Thr | His | Arg | Ser | Ser | Val | Pro | Thr | Thr | Ser | Ser | Pro | Gly |
| | 18590 | | | | | 18595 | | | | | 18600 | | | |
| Thr | Ser | Thr | Val | His | Leu | Ala | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu |
| | 18605 | | | | | 18610 | | | | | 18615 | | | |
| Pro | Gly | His | Thr | Ala | Pro | Val | Pro | Leu | Leu | Ile | Pro | Phe | Thr | Leu |
| | 18620 | | | | | 18625 | | | | | 18630 | | | |
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | His | Tyr | Glu | Glu | Asn | Met | Gln | His |
| | 18635 | | | | | 18640 | | | | | 18645 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |
| | 18650 | | | | | 18655 | | | | | 18660 | | | |
| Leu | Leu | Lys | Pro | Leu | Phe | Lys | Ser | Thr | Ser | Val | Gly | Pro | Leu | Tyr |
| | 18665 | | | | | 18670 | | | | | 18675 | | | |

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| | | | | | | | | | | | | | | |
|-----|--------------|-----|-----|-----|-----|--------------|-----|-----|-----|-----|--------------|-----|-----|-----|
| Ser | Gly 18680 | Cys | Arg | Leu | Thr | Leu 18685 | Leu | Arg | Pro | Glu | Lys 18690 | His | Gly | Ala |
| Ala | Thr 18695 | Gly | Val | Asp | Ala | Ile 18700 | Cys | Thr | Leu | Arg | Leu 18705 | Asp | Pro | Thr |
| Gly | Pro 18710 | Gly | Leu | Asp | Arg | Glu 18715 | Xaa | Leu | Tyr | Trp | Glu 18720 | Leu | Ser | Xaa |
| Leu | Thr 18725 | Xaa | Xaa | Ile | Xaa | Glu 18730 | Leu | Gly | Pro | Tyr | Xaa 18735 | Leu | Asp | Arg |
| Xaa | Ser 18740 | Leu | Tyr | Val | Asn | Gly 18745 | Phe | Xaa | Xaa | Xaa | Xaa 18750 | Xaa | Xaa | Xaa |
| Xaa | Thr 18755 | Ser | Thr | Pro | Gly | Thr 18760 | Ser | Xaa | Val | Xaa | Leu 18765 | Xaa | Thr | Ser |
| Gly | Thr 18770 | Pro | Xaa | Xaa | Xaa | Pro 18775 | Xaa | Xaa | Thr | Xaa | Xaa 18780 | Xaa | Pro | Leu |
| Leu | Xaa 18785 | Pro | Phe | Thr | Leu | Asn 18790 | Phe | Thr | Ile | Thr | Asn 18795 | Leu | Xaa | Tyr |
| Glu | Glu 18800 | Xaa | Met | Xaa | Xaa | Pro 18805 | Gly | Ser | Arg | Lys | Phe 18810 | Asn | Thr | Thr |
| Glu | Arg 18815 | Val | Leu | Gln | Gly | Leu 18820 | Leu | Xaa | Pro | Xaa | Phe 18825 | Lys | Xaa | Thr |
| Ser | Val 18830 | Gly | Xaa | Leu | Tyr | Ser 18835 | Gly | Cys | Arg | Leu | Thr 18840 | Leu | Leu | Arg |
| Xaa | Glu 18845 | Lys | Xaa | Xaa | Ala | Ala 18850 | Thr | Xaa | Val | Asp | Xaa 18855 | Xaa | Cys | Xaa |
| Xaa | Xaa 18860 | Xaa | Asp | Pro | Xaa | Xaa 18865 | Pro | Gly | Leu | Asp | Arg 18870 | Glu | Xaa | Leu |
| Tyr | Trp 18875 | Glu | Leu | Ser | Xaa | Leu 18880 | Thr | Xaa | Xaa | Ile | Xaa 18885 | Glu | Leu | Gly |
| Pro | Tyr 18890 | Xaa | Leu | Asp | Arg | Xaa 18895 | Ser | Leu | Tyr | Val | Asn 18900 | Gly | Phe | Thr |
| His | Arg 18905 | Thr | Ser | Val | Pro | Thr 18910 | Thr | Ser | Thr | Pro | Gly 18915 | Thr | Ser | Thr |

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Val | His | Leu | Ala | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Pro | Gly | His |
| | 18920 | | | | | 18925 | | | | | 18930 | | | |
| Thr | Ala | Pro | Val | Pro | Leu | Leu | Ile | Pro | Phe | Thr | Leu | Asn | Phe | Thr |
| | 18935 | | | | | 18940 | | | | | 18945 | | | |
| Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | Arg | Pro | Gly | Ser |
| | 18950 | | | | | 18955 | | | | | 18960 | | | |
| Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Ser |
| | 18965 | | | | | 18970 | | | | | 18975 | | | |
| Pro | Ile | Phe | Lys | Asn | Ser | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys |
| | 18980 | | | | | 18985 | | | | | 18990 | | | |
| Arg | Leu | Thr | Ser | Leu | Arg | Pro | Glu | Lys | Asp | Gly | Ala | Ala | Thr | Gly |
| | 18995 | | | | | 19000 | | | | | 19005 | | | |
| Met | Asp | Ala | Val | Cys | Leu | Tyr | His | Pro | Asn | Pro | Lys | Arg | Pro | Gly |
| | 19010 | | | | | 19015 | | | | | 19020 | | | |
| Leu | Asp | Arg | Glu | Gln | Leu | Tyr | Cys | Glu | Leu | Ser | Gln | Leu | Thr | His |
| | 19025 | | | | | 19030 | | | | | 19035 | | | |
| Asn | Ile | Thr | Glu | Leu | Gly | Pro | Tyr | Ser | Leu | Asp | Arg | Asp | Ser | Leu |
| | 19040 | | | | | 19045 | | | | | 19050 | | | |
| Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Asn | Ser | Val | Pro | Thr | Thr | Ser |
| | 19055 | | | | | 19060 | | | | | 19065 | | | |
| Thr | Pro | Gly | Thr | Ser | Thr | Val | Tyr | Trp | Ala | Thr | Thr | Gly | Thr | Pro |
| | 19070 | | | | | 19075 | | | | | 19080 | | | |
| Ser | Ser | Phe | Pro | Gly | His | Thr | Xaa | Xaa | Xaa | Pro | Leu | Leu | Xaa | Pro |
| | 19085 | | | | | 19090 | | | | | 19095 | | | |
| Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Xaa | Tyr | Glu | Glu | Xaa |
| | 19100 | | | | | 19105 | | | | | 19110 | | | |
| Met | Xaa | Xaa | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val |
| | 19115 | | | | | 19120 | | | | | 19125 | | | |
| Leu | Gln | Gly | Leu | Leu | Xaa | Pro | Xaa | Phe | Lys | Xaa | Thr | Ser | Val | Gly |
| | 19130 | | | | | 19135 | | | | | 19140 | | | |
| Xaa | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Xaa | Glu | Lys |

19145

| | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Xaa | Xaa | Ala | Ala | Thr | Xaa | Val | Asp | Xaa | Xaa | Cys | Xaa | Xaa | Xaa | Xaa |
| 19160 | | | | | | 19165 | | | | | 19170 | | | |
| Asp | Pro | Xaa | Xaa | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu |
| 19175 | | | | | | 19180 | | | | | 19185 | | | |
| Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa |
| 19190 | | | | | | 19195 | | | | | 19200 | | | |
| Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Trp | Ser |
| 19205 | | | | | | 19210 | | | | | 19215 | | | |
| Ser | Gly | Leu | Thr | Thr | Ser | Thr | Pro | Trp | Thr | Ser | Thr | Val | Asp | Leu |
| 19220 | | | | | | 19225 | | | | | 19230 | | | |
| Gly | Thr | Ser | Gly | Thr | Pro | Ser | Pro | Val | Pro | Ser | Pro | Thr | Thr | Ala |
| 19235 | | | | | | 19240 | | | | | 19245 | | | |
| Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn |
| 19250 | | | | | | 19255 | | | | | 19260 | | | |
| Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | Arg | Pro | Gly | Ser | Arg | Lys | Phe |
| 19265 | | | | | | 19270 | | | | | 19275 | | | |
| Asn | Ala | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Ser | Pro | Ile | Phe |
| 19280 | | | | | | 19285 | | | | | 19290 | | | |
| Lys | Asn | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr |
| 19295 | | | | | | 19300 | | | | | 19305 | | | |
| Leu | Leu | Arg | Pro | Glu | Lys | Gln | Glu | Ala | Ala | Thr | Gly | Val | Asp | Thr |
| 19310 | | | | | | 19315 | | | | | 19320 | | | |
| Ile | Cys | Thr | His | Arg | Val | Asp | Pro | Ile | Gly | Pro | Gly | Leu | Asp | Arg |
| 19325 | | | | | | 19330 | | | | | 19335 | | | |
| Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa |
| 19340 | | | | | | 19345 | | | | | 19350 | | | |
| Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn |
| 19355 | | | | | | 19360 | | | | | 19365 | | | |
| Gly | Phe | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Thr | Ser | Thr | Pro | Gly |
| 19370 | | | | | | 19375 | | | | | 19380 | | | |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Thr | Ser | Xaa | Val | Xaa | Leu | Xaa | Thr | Ser | Gly | Thr | Pro | Xaa | Xaa | Xaa |
| | 19385 | | | | | 19390 | | | | | 19395 | | | |
| Pro | Xaa | Xaa | Thr | Xaa | Xaa | Xaa | Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu |
| | 19400 | | | | | 19405 | | | | | 19410 | | | |
| Asn | Phe | Thr | Ile | Thr | Asn | Leu | Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa |
| | 19415 | | | | | 19420 | | | | | 19425 | | | |
| Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly |
| | 19430 | | | | | 19435 | | | | | 19440 | | | |
| Leu | Leu | Xaa | Pro | Xaa | Phe | Lys | Xaa | Thr | Ser | Val | Gly | Xaa | Leu | Tyr |
| | 19445 | | | | | 19450 | | | | | 19455 | | | |
| Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Xaa | Glu | Lys | Xaa | Xaa | Ala |
| | 19460 | | | | | 19465 | | | | | 19470 | | | |
| Ala | Thr | Xaa | Val | Asp | Xaa | Xaa | Cys | Xaa | Xaa | Xaa | Xaa | Asp | Pro | Xaa |
| | 19475 | | | | | 19480 | | | | | 19485 | | | |
| Xaa | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa |
| | 19490 | | | | | 19495 | | | | | 19500 | | | |
| Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg |
| | 19505 | | | | | 19510 | | | | | 19515 | | | |
| Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Phe | Gly | Leu |
| | 19520 | | | | | 19525 | | | | | 19530 | | | |
| Thr | Thr | Ser | Thr | Pro | Trp | Thr | Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser |
| | 19535 | | | | | 19540 | | | | | 19545 | | | |
| Gly | Thr | Pro | Ser | Pro | Val | Pro | Ser | Pro | Thr | Thr | Ala | Gly | Pro | Leu |
| | 19550 | | | | | 19555 | | | | | 19560 | | | |
| Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr |
| | 19565 | | | | | 19570 | | | | | 19575 | | | |
| Glu | Glu | Asp | Met | His | Arg | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr |
| | 19580 | | | | | 19585 | | | | | 19590 | | | |
| Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Thr | Pro | Leu | Phe | Arg | Asn | Thr |
| | 19595 | | | | | 19600 | | | | | 19605 | | | |
| Ser | Val | Ser | Ser | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg |
| | 19610 | | | | | 19615 | | | | | 19620 | | | |

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|-----|--------------|-----|-----|-----|-----|--------------|-----|-----|-----|-----|--------------|-----|-----|-----|
| Pro | Glu 19625 | Lys | Asp | Gly | Ala | Ala 19630 | Thr | Arg | Val | Asp | Ala 19635 | Val | Cys | Thr |
| His | Arg 19640 | Pro | Asp | Pro | Lys | Ser 19645 | Pro | Gly | Leu | Asp | Arg 19650 | Glu | Xaa | Leu |
| Tyr | Trp 19655 | Glu | Leu | Ser | Xaa | Leu 19660 | Thr | Xaa | Xaa | Ile | Xaa 19665 | Glu | Leu | Gly |
| Pro | Tyr 19670 | Xaa | Leu | Asp | Arg | Xaa 19675 | Ser | Leu | Tyr | Val | Asn 19680 | Gly | Phe | Xaa |
| Xaa | Xaa 19685 | Xaa | Xaa | Xaa | Xaa | Xaa 19690 | Thr | Ser | Thr | Pro | Gly 19695 | Thr | Ser | Xaa |
| Val | Xaa 19700 | Leu | Xaa | Thr | Ser | Gly 19705 | Thr | Pro | Xaa | Xaa | Xaa 19710 | Pro | Xaa | Xaa |
| Thr | Xaa 19715 | Xaa | Xaa | Pro | Leu | Leu 19720 | Xaa | Pro | Phe | Thr | Leu 19725 | Asn | Phe | Thr |
| Ile | Thr 19730 | Asn | Leu | Xaa | Tyr | Glu 19735 | Glu | Xaa | Met | Xaa | Xaa 19740 | Pro | Gly | Ser |
| Arg | Lys 19745 | Phe | Asn | Thr | Thr | Glu 19750 | Arg | Val | Leu | Gln | Gly 19755 | Leu | Leu | Xaa |
| Pro | Xaa 19760 | Phe | Lys | Xaa | Thr | Ser 19765 | Val | Gly | Xaa | Leu | Tyr 19770 | Ser | Gly | Cys |
| Arg | Leu 19775 | Thr | Leu | Leu | Arg | Xaa 19780 | Glu | Lys | Xaa | Xaa | Ala 19785 | Ala | Thr | Xaa |
| Val | Asp 19790 | Xaa | Xaa | Cys | Xaa | Xaa 19795 | Xaa | Xaa | Asp | Pro | Xaa 19800 | Xaa | Pro | Gly |
| Leu | Asp 19805 | Arg | Glu | Xaa | Leu | Tyr 19810 | Trp | Glu | Leu | Ser | Xaa 19815 | Leu | Thr | Xaa |
| Xaa | Ile 19820 | Xaa | Glu | Leu | Gly | Pro 19825 | Tyr | Xaa | Leu | Asp | Arg 19830 | Xaa | Ser | Leu |
| Tyr | Val 19835 | Asn | Gly | Phe | Thr | His 19840 | Trp | Ile | Pro | Val | Pro 19845 | Thr | Ser | Ser |
| Thr | Pro 19850 | Gly | Thr | Ser | Thr | Val 19855 | Asp | Leu | Gly | Ser | Gly 19860 | Thr | Pro | Ser |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Ser | Leu | Pro | Ser | Pro | Thr | Thr | Ala | Gly | Pro | Leu | Leu | Val | Pro | Phe |
| | 19865 | | | | | 19870 | | | | | 19875 | | | |
| Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Gly | Glu | Asp | Met |
| | 19880 | | | | | 19885 | | | | | 19890 | | | |
| Gly | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu |
| | 19895 | | | | | 19900 | | | | | 19905 | | | |
| Gln | Gly | Leu | Leu | Gly | Pro | Ile | Phe | Lys | Asn | Thr | Ser | Val | Gly | Pro |
| | 19910 | | | | | 19915 | | | | | 19920 | | | |
| Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Ser | Leu | Arg | Ser | Glu | Lys | Asp |
| | 19925 | | | | | 19930 | | | | | 19935 | | | |
| Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Ile | His | His | Leu | Asp |
| | 19940 | | | | | 19945 | | | | | 19950 | | | |
| Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu |
| | 19955 | | | | | 19960 | | | | | 19965 | | | |
| Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu |
| | 19970 | | | | | 19975 | | | | | 19980 | | | |
| Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 19985 | | | | | 19990 | | | | | 19995 | | | |
| Xaa | Xaa | Xaa | Thr | Ser | Thr | Pro | Gly | Thr | Ser | Xaa | Val | Xaa | Leu | Xaa |
| | 20000 | | | | | 20005 | | | | | 20010 | | | |
| Thr | Ser | Gly | Thr | Pro | Xaa | Xaa | Xaa | Pro | Xaa | Xaa | Thr | Xaa | Xaa | Xaa |
| | 20015 | | | | | 20020 | | | | | 20025 | | | |
| Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu |
| | 20030 | | | | | 20035 | | | | | 20040 | | | |
| Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser | Arg | Lys | Phe | Asn |
| | 20045 | | | | | 20050 | | | | | 20055 | | | |
| Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Xaa | Pro | Xaa | Phe | Lys |
| | 20060 | | | | | 20065 | | | | | 20070 | | | |
| Xaa | Thr | Ser | Val | Gly | Xaa | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu |
| | 20075 | | | | | 20080 | | | | | 20085 | | | |
| Leu | Arg | Xaa | Glu | Lys | Xaa | Xaa | Ala | Ala | Thr | Xaa | Val | Asp | Xaa | Xaa |

20090

| | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Cys | Xaa | Xaa | Xaa | Xaa | Asp | Pro | Xaa | Xaa | Pro | Gly | Leu | Asp | Arg | Glu |
| 20105 | | | | | | 20110 | | | | | 20115 | | | |
| Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu | Thr | Xaa | Xaa | Ile | Xaa | Glu |
| 20120 | | | | | | 20125 | | | | | 20130 | | | |
| Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa | Ser | Leu | Tyr | Val | Asn | Gly |
| 20135 | | | | | | 20140 | | | | | 20145 | | | |
| Phe | Thr | His | Gln | Thr | Phe | Ala | Pro | Asn | Thr | Ser | Thr | Pro | Gly | Thr |
| 20150 | | | | | | 20155 | | | | | 20160 | | | |
| Ser | Thr | Val | Asp | Leu | Gly | Thr | Ser | Gly | Thr | Pro | Ser | Ser | Leu | Pro |
| 20165 | | | | | | 20170 | | | | | 20175 | | | |
| Ser | Pro | Thr | Ser | Ala | Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn |
| 20180 | | | | | | 20185 | | | | | 20190 | | | |
| Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | His | Pro |
| 20195 | | | | | | 20200 | | | | | 20205 | | | |
| Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu |
| 20210 | | | | | | 20215 | | | | | 20220 | | | |
| Leu | Gly | Pro | Met | Phe | Lys | Asn | Thr | Ser | Val | Gly | Leu | Leu | Tyr | Ser |
| 20225 | | | | | | 20230 | | | | | 20235 | | | |
| Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Asn | Gly | Ala | Ala |
| 20240 | | | | | | 20245 | | | | | 20250 | | | |
| Thr | Arg | Val | Asp | Ala | Val | Cys | Thr | His | Arg | Pro | Asp | Pro | Lys | Ser |
| 20255 | | | | | | 20260 | | | | | 20265 | | | |
| Pro | Gly | Leu | Asp | Arg | Glu | Xaa | Leu | Tyr | Trp | Glu | Leu | Ser | Xaa | Leu |
| 20270 | | | | | | 20275 | | | | | 20280 | | | |
| Thr | Xaa | Xaa | Ile | Xaa | Glu | Leu | Gly | Pro | Tyr | Xaa | Leu | Asp | Arg | Xaa |
| 20285 | | | | | | 20290 | | | | | 20295 | | | |
| Ser | Leu | Tyr | Val | Asn | Gly | Phe | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| 20300 | | | | | | 20305 | | | | | 20310 | | | |
| Thr | Ser | Thr | Pro | Gly | Thr | Ser | Xaa | Val | Xaa | Leu | Xaa | Thr | Ser | Gly |
| 20315 | | | | | | 20320 | | | | | 20325 | | | |

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Thr | Pro | Xaa | Xaa | Xaa | Pro | Xaa | Xaa | Thr | Ala | Pro | Val | Pro | Leu | Leu |
| | 20330 | | | | | 20335 | | | | | 20340 | | | |
| Ile | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | His | Tyr | Glu |
| | 20345 | | | | | 20350 | | | | | 20355 | | | |
| Glu | Asn | Met | Gln | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu |
| | 20360 | | | | | 20365 | | | | | 20370 | | | |
| Arg | Val | Leu | Gln | Gly | Leu | Leu | Arg | Pro | Leu | Phe | Lys | Ser | Thr | Ser |
| | 20375 | | | | | 20380 | | | | | 20385 | | | |
| Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro |
| | 20390 | | | | | 20395 | | | | | 20400 | | | |
| Glu | Lys | His | Gly | Ala | Ala | Thr | Gly | Val | Asp | Ala | Ile | Cys | Thr | Leu |
| | 20405 | | | | | 20410 | | | | | 20415 | | | |
| Arg | Leu | Asp | Pro | Thr | Gly | Pro | Gly | Leu | Asp | Arg | Glu | Arg | Leu | Tyr |
| | 20420 | | | | | 20425 | | | | | 20430 | | | |
| Trp | Glu | Leu | Ser | Gln | Leu | Thr | Asn | Ser | Val | Thr | Glu | Leu | Gly | Pro |
| | 20435 | | | | | 20440 | | | | | 20445 | | | |
| Tyr | Thr | Leu | Asp | Arg | Asp | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | Gln |
| | 20450 | | | | | 20455 | | | | | 20460 | | | |
| Arg | Ser | Ser | Val | Pro | Thr | Thr | Ser | Ile | Pro | Gly | Thr | Ser | Ala | Val |
| | 20465 | | | | | 20470 | | | | | 20475 | | | |
| His | Leu | Glu | Thr | Ser | Gly | Thr | Pro | Ala | Ser | Leu | Pro | Gly | His | Thr |
| | 20480 | | | | | 20485 | | | | | 20490 | | | |
| Ala | Pro | Gly | Pro | Leu | Leu | Val | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile |
| | 20495 | | | | | 20500 | | | | | 20505 | | | |
| Thr | Asn | Leu | Gln | Tyr | Glu | Val | Asp | Met | Arg | His | Pro | Gly | Ser | Arg |
| | 20510 | | | | | 20515 | | | | | 20520 | | | |
| Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Lys | Pro |
| | 20525 | | | | | 20530 | | | | | 20535 | | | |
| Leu | Phe | Lys | Ser | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg |
| | 20540 | | | | | 20545 | | | | | 20550 | | | |
| Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Arg | Gly | Ala | Ala | Thr | Gly | Val |
| | 20555 | | | | | 20560 | | | | | 20565 | | | |

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| | | | | | |
|------------------|-----------------|--------------|-----------------|--------------|-------------|
| Asp Thr 20570 | Ile Cys Thr His | Arg 20575 | Leu Asp Pro Leu | Asn 20580 | Pro Gly Leu |
| Asp Arg 20585 | Glu Gln Leu Tyr | Trp 20590 | Glu Leu Ser Lys | Leu 20595 | Thr Arg Gly |
| Ile Ile 20600 | Glu Leu Gly Pro | Tyr 20605 | Leu Leu Asp Arg | Gly 20610 | Ser Leu Tyr |
| Val Asn 20615 | Gly Phe Thr His | Arg 20620 | Asn Phe Val Pro | Ile 20625 | Thr Ser Thr |
| Pro Gly 20630 | Thr Ser Thr Val | His 20635 | Leu Gly Thr Ser | Glu 20640 | Thr Pro Ser |
| Ser Leu 20645 | Pro Arg Pro Ile | Val 20650 | Pro Gly Pro Leu | Leu 20655 | Val Pro Phe |
| Thr Leu 20660 | Asn Phe Thr Ile | Thr 20665 | Asn Leu Gln Tyr | Glu 20670 | Glu Ala Met |
| Arg His 20675 | Pro Gly Ser Arg | Lys 20680 | Phe Asn Thr Thr | Glu 20685 | Arg Val Leu |
| Gln Gly 20690 | Leu Leu Arg Pro | Leu 20695 | Phe Lys Asn Thr | Ser 20700 | Ile Gly Pro |
| Leu Tyr 20705 | Ser Ser Cys Arg | Leu 20710 | Thr Leu Leu Arg | Pro 20715 | Glu Lys Asp |
| Lys Ala 20720 | Ala Thr Arg Val | Asp 20725 | Ala Ile Cys Thr | His 20730 | His Pro Asp |
| Pro Gln 20735 | Ser Pro Gly Leu | Asn 20740 | Arg Glu Gln Leu | Tyr 20745 | Trp Glu Leu |
| Ser Gln 20750 | Leu Thr His Gly | Ile 20755 | Thr Glu Leu Gly | Pro 20760 | Tyr Thr Leu |
| Asp Arg 20765 | Asp Ser Leu Tyr | Val 20770 | Asp Gly Phe Thr | His 20775 | Trp Ser Pro |
| Ile Pro 20780 | Thr Thr Ser Thr | Pro 20785 | Gly Thr Ser Ile | Val 20790 | Asn Leu Gly |
| Thr Ser 20795 | Gly Ile Pro Pro | Ser 20800 | Leu Pro Glu Thr | Thr 20805 | Xaa Xaa Xaa |

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| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Pro | Leu | Leu | Xaa | Pro | Phe | Thr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu |
| | 20810 | | | | | 20815 | | | | | 20820 | | | |
| Xaa | Tyr | Glu | Glu | Xaa | Met | Xaa | Xaa | Pro | Gly | Ser | Arg | Lys | Phe | Asn |
| | 20825 | | | | | 20830 | | | | | 20835 | | | |
| Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu | Leu | Lys | Pro | Leu | Phe | Lys |
| | 20840 | | | | | 20845 | | | | | 20850 | | | |
| Ser | Thr | Ser | Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu |
| | 20855 | | | | | 20860 | | | | | 20865 | | | |
| Leu | Arg | Pro | Glu | Lys | Asp | Gly | Val | Ala | Thr | Arg | Val | Asp | Ala | Ile |
| | 20870 | | | | | 20875 | | | | | 20880 | | | |
| Cys | Thr | His | Arg | Pro | Asp | Pro | Lys | Ile | Pro | Gly | Leu | Asp | Arg | Gln |
| | 20885 | | | | | 20890 | | | | | 20895 | | | |
| Gln | Leu | Tyr | Trp | Glu | Leu | Ser | Gln | Leu | Thr | His | Ser | Ile | Thr | Glu |
| | 20900 | | | | | 20905 | | | | | 20910 | | | |
| Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg | Asp | Ser | Leu | Tyr | Val | Asn | Gly |
| | 20915 | | | | | 20920 | | | | | 20925 | | | |
| Phe | Thr | Gln | Arg | Ser | Ser | Val | Pro | Thr | Thr | Ser | Thr | Pro | Gly | Thr |
| | 20930 | | | | | 20935 | | | | | 20940 | | | |
| Phe | Thr | Val | Gln | Pro | Glu | Thr | Ser | Glu | Thr | Pro | Ser | Ser | Leu | Pro |
| | 20945 | | | | | 20950 | | | | | 20955 | | | |
| Gly | Pro | Thr | Ala | Thr | Gly | Pro | Val | Leu | Leu | Pro | Phe | Thr | Leu | Asn |
| | 20960 | | | | | 20965 | | | | | 20970 | | | |
| Phe | Thr | Ile | Thr | Asn | Leu | Gln | Tyr | Glu | Glu | Asp | Met | His | Arg | Pro |
| | 20975 | | | | | 20980 | | | | | 20985 | | | |
| Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu | Arg | Val | Leu | Gln | Gly | Leu |
| | 20990 | | | | | 20995 | | | | | 21000 | | | |
| Leu | Met | Pro | Leu | Phe | Lys | Asn | Thr | Ser | Val | Ser | Ser | Leu | Tyr | Ser |
| | 21005 | | | | | 21010 | | | | | 21015 | | | |
| Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro | Glu | Lys | Asp | Gly | Ala | Ala |
| | 21020 | | | | | 21025 | | | | | 21030 | | | |
| Thr | Arg | Val | Asp | Ala | Val | Cys | Thr | His | Arg | Pro | Asp | Pro | Lys | Ser |

21035

| | | | | | | | | | | | | | | |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|
| Pro | Gly | Leu | Asp | Arg | Glu | Arg | Leu | Tyr | Trp | Lys | Leu | Ser | Gln | Leu |
| | 21050 | | | | | 21055 | | | | | 21060 | | | |
| Thr | His | Gly | Ile | Thr | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp | Arg | His |
| | 21065 | | | | | 21070 | | | | | 21075 | | | |
| Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Gln | Ser | Ser | Met | Thr | Thr |
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| Thr | Arg | Thr | Pro | Asp | Thr | Ser | Thr | Met | His | Leu | Ala | Thr | Ser | Arg |
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| Thr | Pro | Ala | Ser | Leu | Ser | Gly | Pro | Thr | Thr | Ala | Ser | Pro | Leu | Leu |
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| Val | Leu | Phe | Thr | Ile | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Arg | Tyr | Glu |
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| Glu | Asn | Met | His | His | Pro | Gly | Ser | Arg | Lys | Phe | Asn | Thr | Thr | Glu |
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| Arg | Val | Leu | Gln | Gly | Leu | Leu | Arg | Pro | Val | Phe | Lys | Asn | Thr | Ser |
| | 21155 | | | | | 21160 | | | | | 21165 | | | |
| Val | Gly | Pro | Leu | Tyr | Ser | Gly | Cys | Arg | Leu | Thr | Leu | Leu | Arg | Pro |
| | 21170 | | | | | 21175 | | | | | 21180 | | | |
| Lys | Lys | Asp | Gly | Ala | Ala | Thr | Lys | Val | Asp | Ala | Ile | Cys | Thr | Tyr |
| | 21185 | | | | | 21190 | | | | | 21195 | | | |
| Arg | Pro | Asp | Pro | Lys | Ser | Pro | Gly | Leu | Asp | Arg | Glu | Gln | Leu | Tyr |
| | 21200 | | | | | 21205 | | | | | 21210 | | | |
| Trp | Glu | Leu | Ser | Gln | Leu | Thr | His | Ser | Ile | Thr | Glu | Leu | Gly | Pro |
| | 21215 | | | | | 21220 | | | | | 21225 | | | |
| Tyr | Thr | Gln | Asp | Arg | Asp | Ser | Leu | Tyr | Asn | Val | Gly | Phe | Thr | Gln |
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| Arg | Ser | Ser | Val | Pro | Thr | Thr | Ser | Val | Pro | Gly | Thr | Pro | Thr | Val |
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| Asp | Leu | Gly | Thr | Ser | Gly | Thr | Pro | Val | Ser | Lys | Pro | Gly | Pro | Ser |
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Ala Ala Ser Pro Leu Leu Val Leu Phe Thr Leu Asn Gly Thr Ile
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Thr Asn Leu Arg Tyr Glu Glu Asn Met Gln His Pro Gly Ser Arg
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Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Ser
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Leu Phe Lys Ser Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg
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Leu Thr Leu Leu Arg Pro Glu Lys Asp Gly Thr Ala Thr Gly Val
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Asp Ala Ile Cys Thr His His Pro Asp Pro Lys Ser Pro Arg Leu
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Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Asn
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Ile Thr Glu Leu Gly His Tyr Ala Leu Asp Asn Asp Ser Leu Phe
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Val Asn Gly Phe Thr His Arg Ser Ser Val Ser Thr Thr Ser Thr
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| | | | | | | | | | | | | | | |
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| Gln | Leu | Thr | His | Ser | Ile | Thr | Glu | Leu | Gly | Pro | Tyr | Thr | Leu | Asp |
| | 21530 | | | | | 21535 | | | | | 21540 | | | |
| Arg | Asp | Ser | Leu | Tyr | Val | Asn | Gly | Phe | Thr | His | Arg | Ser | Ser | Val |
| | 21545 | | | | | 21550 | | | | | 21555 | | | |
| Pro | Thr | Thr | Ser | Thr | Gly | Val | Val | Ser | Glu | Glu | Pro | Phe | Thr | Leu |
| | 21560 | | | | | 21565 | | | | | 21570 | | | |
| Asn | Phe | Thr | Ile | Asn | Asn | Leu | Arg | Tyr | Met | Ala | Asp | Met | Gly | Gln |
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| Pro | Gly | Ser | Leu | Lys | Phe | Asn | Ile | Thr | Asp | Asn | Val | Met | Lys | His |
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| Glu | Thr | Arg | Val | Asp | Leu | Leu | Cys | Thr | Tyr | Leu | Gln | Pro | Leu | Ser |
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| Gly | Pro | Gly | Leu | Pro | Ile | Lys | Gln | Val | Phe | His | Glu | Leu | Ser | Gln |
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| Gln | Thr | His | Gly | Ile | Thr | Arg | Leu | Gly | Pro | Tyr | Ser | Leu | Asp | Lys |
| | 21665 | | | | | 21670 | | | | | 21675 | | | |
| Asp | Ser | Leu | Tyr | Leu | Asn | Gly | Tyr | Asn | Glu | Pro | Gly | Leu | Asp | Glu |
| | 21680 | | | | | 21685 | | | | | 21690 | | | |
| Pro | Pro | Thr | Thr | Pro | Lys | Pro | Ala | Thr | Thr | Phe | Leu | Pro | Pro | Leu |
| | 21695 | | | | | 21700 | | | | | 21705 | | | |
| Ser | Glu | Ala | Thr | Thr | Ala | Met | Gly | Tyr | His | Leu | Lys | Thr | Leu | Thr |
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| Leu | Asn | Phe | Thr | Ile | Ser | Asn | Leu | Gln | Tyr | Ser | Pro | Asp | Met | Gly |
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| Lys | Gly | Ser | Ala | Thr | Phe | Asn | Ser | Thr | Glu | Gly | Val | Leu | Gln | His |
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| | | | | | | | | | | | | | | |
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| Leu | Gly | Cys | Gln | Leu | Ile | Ser | Leu | Arg | Pro | Glu | Lys | Asp | Gly | Ala |
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| Ala | Thr | Gly | Val | Asp | Thr | Thr | Cys | Thr | Tyr | His | Pro | Asp | Pro | Val |
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| | 21800 | | | | | 21805 | | | | | 21810 | | | |
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| Asp | Ser | Leu | Phe | Ile | Asn | Gly | Tyr | Ala | Pro | Gln | Asn | Leu | Ser | Ile |
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| Arg | Gly | Glu | Tyr | Gln | Ile | Asn | Phe | His | Ile | Val | Asn | Trp | Asn | Leu |
| | 21845 | | | | | 21850 | | | | | 21855 | | | |
| Ser | Asn | Pro | Asp | Pro | Thr | Ser | Ser | Glu | Tyr | Ile | Thr | Leu | Leu | Arg |
| | 21860 | | | | | 21865 | | | | | 21870 | | | |
| Asp | Ile | Gln | Asp | Lys | Val | Thr | Thr | Leu | Tyr | Lys | Gly | Ser | Gln | Leu |
| | 21875 | | | | | 21880 | | | | | 21885 | | | |
| His | Asp | Thr | Phe | Arg | Phe | Cys | Leu | Val | Thr | Asn | Leu | Thr | Met | Asp |
| | 21890 | | | | | 21895 | | | | | 21900 | | | |
| Ser | Val | Leu | Val | Thr | Val | Lys | Ala | Leu | Phe | Ser | Ser | Asn | Leu | Asp |
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| Pro | Ser | Leu | Val | Glu | Gln | Val | Phe | Leu | Asp | Lys | Thr | Leu | Asn | Ala |
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| Ser | Phe | His | Trp | Leu | Gly | Ser | Thr | Tyr | Gln | Leu | Val | Asp | Ile | His |
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| Val | Thr | Glu | Met | Glu | Ser | Ser | Val | Tyr | Gln | Pro | Thr | Ser | Ser | Ser |
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| Ser | Thr | Gln | His | Phe | Tyr | Leu | Asn | Phe | Thr | Ile | Thr | Asn | Leu | Pro |
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| Tyr | Ser | Gln | Asp | Lys | Ala | Gln | Pro | Gly | Thr | Thr | Asn | Tyr | Gln | Arg |

21980

Asn Lys Arg Asn Ile Glu Asp Ala Leu Asn Gln Leu Phe Arg Asn
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Ser Ser Ile Lys Ser Tyr Phe Ser Asp Cys Gln Val Ser Thr Phe
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Arg Ser Val Pro Asn Arg His His Thr Gly Val Asp Ser Leu Cys
22025 22030 22035
Asn Phe Ser Pro Leu Ala Arg Arg Val Asp Arg Val Ala Ile Tyr
22040 22045 22050
Glu Glu Phe Leu Arg Met Thr Arg Asn Gly Thr Gln Leu Gln Asn
22055 22060 22065
Phe Thr Leu Asp Arg Ser Ser Val Leu Val Asp Gly Tyr Ser Pro
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Asn Arg Asn Glu Pro Leu Thr Gly Asn Ser Asp Leu Pro Phe Trp
22085 22090 22095
Ala Val Ile Leu Ile Gly Leu Ala Gly Leu Leu Gly Leu Ile Thr
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Glu Gly Glu Tyr Asn Val Gln Gln Gln Cys Pro Gly Tyr Tyr Gln
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29

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